

Brett M. Longwith
Curriculum Vitae

Education:

Austin Peay State University, Clarksville, TN

Aug 2016—Aug 2018

M.S. in Biology

Tennessee Wesleyan College, Athens, TN

Aug 2012—May 2016

B.A. in Biology, minor in Chemistry

Positions Held:

STEM Success Center Manager, Oct 2021—Present, Maryville College

- Oversight of the STEM Success Center which provides academic support for all introductory STEM coursework and specialized training sessions to support skill development. Includes hiring and training student workers.
- Coordination of a STEM-centric speaker series that connects students with current research and career pathways. Generally attended by 10-15% of the entire student population each year.
- Collect extensive student usage data regarding STEM Success and the speaker series.
- Curate weekly newsletter to connect students with internship and REU positions.
- Ensure scholarship compliance for students involved with the Scots Science Scholars, an NSF-funded S-STEM program.

Lab Technician, Jan 2019—June 2021, Roane State Community College

- Involved the preparation, organization, and maintenance of labs for all courses associated with the biology, chemistry, and chemical engineering programs for the Oak Ridge branch campus.

Teaching Appointments:

Portfolio: STEM Success Co-Instructor, 2022—2024, Maryville College

- Co-instructor of record for students participating in the NSF-funded Scots Science Scholars program.
- Curriculum revolved around professional skills and STEM-major specific skills, such as: finding internships, career expectations, contacting professors, citation managers, finding and vetting sources, and approaches to problem solving.

Biology and Anatomy & Physiology Adjunct Instructor, 2020—2021, Roane State Community College

- Instructor of record for a combination of in-person and online lecture and lab sections.
- Teaching role was completed in addition to my laboratory technician duties with the college.

Anatomy & Physiology Adjunct Instructor, 2018, Austin Peay State University

- Instructor of record for three lecture and three laboratory sections.

Microbiology Lab Instructor, 2016—2018, Austin Peay State University

- Graduate teaching assistant position where the responsibilities included lecture presentation, laboratory setup, and microbial culturing.

Professional Training & Certifications:

Culturally Aware Mentor Training. *National Research Mentoring Network & Center for the Improved Mentored Experience in Research*. Completed on 9 January 2025.

Entering Mentoring Training. *National Research Mentoring Network & Center for the Improved Mentored Experience in Research*. Completed on 23 April 2024.

Professional Presentations:

Longwith, B. and M. Siopsis. 2023. Creating and Sustaining a Student STEM Success Center: It's More Than Tutoring. Oral presentation, 3 November 2023, AAC&U Transforming STEM Higher Education Conference, Arlington, VA.

Gibson A., B. Longwith, and M. Siopsis. 2023. Supporting STEM students on a budget. Oral presentation, 22 September 2023, Appalachian College Association Annual Summit, Knoxville, TN.

Longwith, B.* and M. F. Cashner. 2018. Does reproductive coloration reflect color vision capabilities. Oral Presentation, 23 April 2018, Research and Creativity Forum, Austin Peay State University, Clarksville, TN.

Longwith, B.* and M. F. Cashner. 2017. Investigation of color vision in a minnow with nuptial coloration, *Chrosomus erythrogaster*. Oral Presentation, 16 November 2016, Southeastern Fishes Council, Chattanooga, TN.

Longwith, B.*, B. Bedal, M. F. Cashner. 2017. Use of previously developed microsatellite loci for characterization of Southern Redbelly Dace, *Chrosomus erythrogaster*. Poster Presentation 14 July 2017, Joint Meeting of Ichthyologists and Herpetologists, Austin, TX.

Longwith, B.* and A. Moore. 2015. Edge effects on the floristic components of Kilbride Nature Sanctuary, Rhea County, Tennessee. Poster Presentation, 20 November 2015, Tennessee Academy of Science, Murfreesboro, TN.

Research Appointments:

Master's Thesis, Austin Peay State University, 2016-2018

- Comparison of color vision in cyprinids with and without nuptial coloration; directed by Dr. Mollie F. Cashner

Research Assistant, Austin Peay State University, 2018

- Seaside sparrow sexing and parentage assessment. Additionally, population genetics analyses were conducted for all samples collected; directed by Dr. Stefan Woltmann

Research Assistant, Austin Peay State University, 2017—2018

- Utility of eight microsatellite loci in population genetic analyses of Southern Redbelly Dace, *Chrosomus erythrogaster*; directed by Dr. Mollie F. Cashner

Research Assistant, Tennessee Wesleyan University, 2015—2016

- Evaluation of spermatogenesis timing in plethodontid salamanders; directed by Dr. Grant Willhite

Laboratory Assistant, Tennessee Wesleyan University, 2013—2016

- Laboratory setup and preparation for Anatomy & Physiology, Microbiology, General Biology, and Immunology courses.

Research Assistant, 2015, Tennessee Wesleyan University

- Edge effects of the floristic components of Kilbride Nature Sanctuary, Rhea County, Tennessee; directed by Dr. Allen Moore.

Awards & Recognition:

Spirit of the Covenant Award, Maryville College, 2024

- This honor signifies that one is regarded by many as an exemplary embodiment of the Maryville College Covenant, which holds the three tenants: scholarship, respect, and integrity.

The Richard M. Johnson Award, Tennessee Wesleyan College, 2016

- Annual award presented to the senior Biology major who has demonstrated outstanding academic achievement of scientific tradition and philosophy.