Susan M. Abernathy-Taylor

Department of Mathematics Angelo State University $susan.abernathy@angelo.edu\\325.486.5442$

Education

2009-2014	Louisiana State University, Ph.D. in Mathematics
2007-2009	Louisiana State University, M.S. in Mathematics
2003-2007	Trinity University, B.A. in Mathematics

Professional Experience

2014-present	Angelo State University, Assistant Professor
2007 - 2014	Louisiana State University, Graduate Assistant

Publications

- The even and odd Kauffman bracket ideals for genus-1 tangles. Joint with Patrick M. Gilmer. New York J. Math. 22 (2016), 1039-1053.
- 2. The Kauffman bracket ideal for genus-1 tangles. J. Knot Theory Ramifications. 24 (2015), no. 2.
- A reduced set of moves on one-vertex ribbon graphs coming from links. Joint with C. Armond, M. Cohen, O. Dasbach, H. Manuel, C. Penn, H. Russell, and N. Stoltzfus. Proc. Amer. Math. Soc. 142 (2014), no. 3, 737-752.
- 4. On Krebes's tangle. Topology Appl. 160 (2013), no. 12, 1379-1383.

Undergraduate Research Supervised

Knot and Tangle Applications (Honors Thesis), Jackson Rebrovich, Angelo State University, 2015-2016. Awarded a year-long Faculty Mentored Research Grant.

Awards and Honors

2016-2017 Nominee for President's Award for Faculty Excellence in Research/Creative Endeavor, ASU

Research Interests

Low-dimensional topology (skein theory, knot theory, tangle embedding, 3-manifolds, and TQFT's)

Invited Talks

March 2018	Knots and Tangle Embedding, AWM Annual Lecture Series, Baylor University
Oct. 2015	How to Color Knots, Math Majors' Seminar, Trinity University
Sept. 2015	Even and odd Kauffman bracket ideals for genus-1 tangles, Geometry and Topology Seminar,
	UT Dallas

¹This curriculum vitae was prepared in June 2019 in response to HB 2504, in conformance with THECB Rule 4.227(2).