Based on my body of work since starting at Embry-Riddle Aeronautical University – Worldwide in August 2021, I have achieved far beyond the criteria for Tenure and Promotion to Associate Professor. While this packet will provide detail on every detail of my accomplishments, below is a brief overview of how I have exceeded expectations on each tenure-track faculty pillar of teaching, research, and service.

Teaching

I have received stellar student evaluations for all courses I have taught at ERAU-W. All quantitative responses related to Instructor Experience (questions 1-9) average at least 4.5 per question. For open response comments about the instructor, I have received 45 entirely positive comments, 1 neutral comment, and 0 negative comments. This overwhelmingly positive response in my student evaluations shows students enjoy my courses for my extensive feedback and expertise in teaching. Exemplary quotes are provided in the Summary of Teaching Effectiveness reflection.

My peer observations are equally as positive. This is likely due to my extensive research expertise in Collegiate Mathematics Education. When designing courses (such as the new Programming for Data Science course CSCI 251) I attend to varying levels of conception as well as student affect (attitudes, emotions, and values). Assignments are designed to both intellectucally challenge students as well as provide supports for a safe environment to learn without fear of judgement. Students are provided significant content feedback along with encouragement to continue their strong work. My teaching philosophy expands on this focus of both teaching and fostering students as people who can excel at mathematics.

I have participated in numerous teaching development opportunties both within and outside of ERAU-W. The most significant was my one-year fellowship New Experiences in Teaching (NExT) with the Mathematics Association of America. This program is designed for new tenure-track mathematics faculty to learn about teaching innovations and expectations.

Research

My scholarly activity, compared to total expectations outlined in the COAS ERAU-W Academic Guidelines and Criteria for Tenure and Promotion to Associate Professor, is provided in a summary chart below.

	Peer-Reviewed Publications	Conference Presentations	Internal/External Funding Proposals
Year 1	3	5	1
Year 2	3	1	1
Year 3	2	2	3
Year 4	NA	NA	NA
Year 5	NA	NA	NA
Expected	5	5	1
Actual	8	8	5

As the chart illustrates, I surpased the scholarly activity expectations by the end of year 2. Peer-reviewed publications were submitted to a variety of well-respected locations: national conference proceedings (4), peer-reviewed mathematics education journals (3), and as a book chapter (1). Presentations primiarly took place at national and regional conferences (8), though I also presented at ERAU-hosted local and regional events (3) and was invited to talk about my research at another university as part of a seminar series (1). All funding proposals I was a part of were successful: I was PI on internal funding (2), PI on external funding (1), co-PI on an NSF grant (1), and will have an additional funding proposal submitted by the end of year 3. Note that while my Record of Activities lists 6 grants, I was brought in as a co-PI on grant after it was submitted and am not counting it in the funding proposal list. My Research Agenda provides a summary of my research activity by project with my contributions and scholarly products.

Service

I have activly served at all levels of ERAU-W as well as in my professional community. In just my first two years at ERAU-W, I participated in the College of Arts & Science's Faculty Council as well as chaired the ERAU-W Faculty Senate Academic Technology committee. After the sudden passing of Dr. Karen Keene in February 2023, I stepped up to serve as Associate Chair of the department of Mathematics, Science, and Technology in addition to the various service I perform for my department. Outside of Embry-Riddle, I am involved in the Mathematical Association of America (MAA) and the Special Interest Group on Research in Undergraduate Mathematics Education (RUME). The MAA is the largest national association of American and Canadian mathematicians with a membership of over 24,000. RUME was the first Special Interest Group of the MAA and is the largest national association of collegiate mathematics education researchers in the United States. I serve on the MAA Council on Teaching and Learning as well as the chair for the Subcommittee on Technology in Mathematics Education. These groups allow for interaction and influence of college educators, especially with relation to technology. I also serve small committees in RUME as a stepping stone toward running for a leadership role within the research community. Outside of ERAU and my professional communities, I serve as a frequent journal reviewer and grant reviewer for the National Science Foundation. For journals, I am commonly called on to review papers on APOS Theory, a theoretical framework I have published on, as well as student learning through technology. For grants, I commonly review for the NSF Improving Undergraduate STEM Education (IUSE) initative.