Darryl Jim Chamberlain Jr.* (dchamberlain31@ufl.edu) and Russell Jeter. Automated AF: Leveraging augmented intelligence to provide automated, actionable feedback. Preliminary report.

Feedback students can use to advance their learning, known as actionable feedback, is critical for student development but difficult to provide. We propose a method to utilize augmented intelligence to provide automated, actionable feedback. This method focuses on explaining how a student answers a question by providing a connection between what a student answers and the mathematical conception(s) that would lead to such an answer. Results from implementing the method in a 300 student College Algebra course (with a coordinator and 1 teaching assistant) will be presented to showcase the benefits and pitfalls of automated, actionable feedback. (Received September 15, 2020)