

1154-97-2811 **Ben Galluzzo*** (bgalluzz@clarkson.edu), Clarkson University, 8 Clarkson Avenue, Potsdam, NY 13699. *Computational Thinking in the Secondary Mathematics Classroom.*

The U.S. Bureau of Labor Statistics estimates that more than half of all STEM jobs next decade will require computational thinking skills; however, less than 40% of public U.S. high schools provide Computer Science (CS) offerings. In this talk, we'll discuss the NSF funded Computing with R for Mathematical Modeling (CodeR4MATH) project that develops activities focused on shrinking the CS supply and demand gap by infusing computational thinking into the high school mathematics curriculum. In particular, we'll show how the project's mathematical modeling focused modules align with mathematics standards, discuss how teachers have used CodeR4MATH modules in classrooms, and provide examples of student work. (Received September 18, 2019)