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Promoting diversity through outreach at the Girls Talk Math camp.

There are several known barriers to girls and other underrepresented groups entering mathematics. These include not seeing themselves represented amongst mathematicians and lack of confidence and encouragement. The Girls Talk Math camp was founded in 2016 by the authors with the goal of addressing such barriers. The core curriculum of the program breaks campers into groups, with each group working on one of several advanced problem sets, researching a female mathematician, writing a blog post about the problem sets, and writing and recording a podcast about their female mathematician. This talk will focus on how various elements of the camp support diversity and the role of outreach in promoting diversity in mathematics. (Received September 25, 2018)