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Vishal Arul (varul.math@gmail.com) and **Gweneth McKinley*** (gweneth@mit.edu). *Program design and student outcomes at MIT $\sqrt{\text{mathroots}}$.*

$\sqrt{\text{mathroots}}$ is a 14-day summer program hosted by the MIT math department since 2015 for high-potential high school students from underrepresented backgrounds or underserved communities who are interested in exploring creative topics in mathematics and problem solving. Students discover new mathematical ideas and learn problem solving skills through a series of classes, group activities, and invited lectures led by a team of MIT graduate students and instructors with diverse experiences teaching both research and competition math.

We will talk about our experiences with $\sqrt{\text{mathroots}}$, including outreach strategies, organizational practices, and curriculum development. We will also discuss program outcomes and feedback we have received from students. (Received September 10, 2019)