

A Pebbling Potluck:
Interesting problems for thinkers at all levels
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The area of graph pebbling has been an interesting source of problems over the last twenty-five years. In this talk, we will define the graph pebbling game along with some variants. Then we will describe some interesting problems accessible to undergraduate and graduate students. To highlight the accessibility, we will discuss recent results obtained with undergraduate collaborators at Davidson College. In particular, we will describe improvements to complexity bounds for computing the pebbling number of low-diameter graphs as part of Matt Mohorn's Davidson College senior thesis and new results related to optimal pebbling as part of Davidson student Chenxiao Xue's summer research project. My hope for this talk is to encourage other researchers to consider working on these sorts of problems as a way to introduce students to research in graph theory.