Space and Social Structure in Promontory Cave 1, Utah

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Cave 1 was formed by wave action during the high stand of pluvial Lake Bonneville ~17-20,000 years ago.
Least Cost Path

- GIS analysis that predicts pathways to Promontory Cave from the north, using known Promontory sites and raw material sources as origin points.
Main entrance, looking into Cave 1
Space Syntax Analysis

- Looking at dwellings of western North American hunter-gatherer groups and Cave 1 from a space syntax perspective, for comparison.
• The roof is stained black in places so samples were collected and tested. These samples are high in carbon content, potentially indicating areas where smoke from fires may have been rising.
• Smooth spots are present on the rocks along several main routes through the cave. These were identified and mapped, potentially showing how people moved through, into, and out of the cave.
Excavating a moccasin in Trench B area
3D Modeling of Promontory Cave 1 using point cloud data