

1154-39-1872 **Robert Krueger*** (rkrueger@csp.edu) and **Eric Stachura** (eric.stachura@kennesaw.edu).
Tiling an n by 3 Hallway with 1 by 2 Tiles: An Interactive Presentation.

Students will investigate difference equations through the context of tiling hallways. Students will observe patterns in the tiling which will lead to a difference equation model. Solutions will be calculated by iteration. Then students will be introduced to the concept of the shift operator which will enable them to solve for a closed form solution.

The session will be an interactive presentation of how this modeling scenario could be used in a differential equations classroom.

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