

Helen Barton Lecture Series in Computational Mathematics



Sarah Day

William and Mary

Friday, September 28, 2018

Refreshments: 3:30 p.m. in Petty 116

Talk: 4:00 p.m. in Petty 150

“Computational Topology and the Life Sciences: Finding structure in models and data”

Abstract: The field of topology, and in particular computational homology, has produced a powerful set of tools for studying both model systems and data measured directly from physical systems. I will focus on the tools of computational homology and topological persistence. To illustrate their use, I will discuss recent projects studying coupled-patch population dynamics, flickering red blood cells, and ice core data.