ABSTRACT: More than 110 years ago, a mathematician named Otto Toeplitz posed the ‘Inscribed Square Problem’: given a continuous simple closed curve in the plane, must there be four points on the curve that are the vertices of a square? This problem is still open! In this talk, we will discuss what is known about variations on this problem, including new progress made just this spring. In particular, we will prove that every continuous simple closed curve in the plane has an inscribed rectangle- but we’ll do so by a somewhat circuitous route that draws on the topology of non-orientable surfaces!