

# *UMW Colloquium Announcement*

*Department of Mathematics*

## **An Introduction to Hyperbolic Geometry**

Presented by

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**Wednesday, November 20, 2019, 4:00 p.m.  
140 Trinkle Hall**

**Abstract:** Much of the familiar geometry of the Euclidean plane—for instance, the angle sum of triangles—is a consequence of Euclid's famed parallel postulate. In the absence of Euclid's parallel postulate, the possibilities for two-dimensional planar geometry include hyperbolic geometry, a geometry where skinny triangles are big and the plane can be tiled with regular octagons. In this talk, we will use various models of the hyperbolic plane to introduce hyperbolic geometry outline some of the more peculiar features of the geometry.

