

## ***GRADUATE STUDENT SEMINAR***

**Guest Speaker: Khoi Nguyen**

**University of Notre Dame**

**Date:** Monday, October 9, 2023

**Time:** 5:00 PM

**Location:** 258 Hurley Bldg

**Zoom URL:** NA

***Lecture Title:***

**A Panoramic View of (Basic) Riemannian Geometry**

***Abstract***

In this talk, I will give a gentle introduction to the field of Riemannian geometry. Starting with the geometry of surfaces in  $R^3$ , I will discuss an intuitive picture for many concepts that are central to Riemannian geometry. I will discuss vector fields, metric, connection, and curvature for general Riemannian manifolds, all without the formalism of indices and tensor calculus. If time permits, I will give an idea of what I am currently doing for my oral exam (and research).