

UMW Colloquium Announcement

Department of Mathematics

How Distance Depends on How You Travel

Presented by

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**Tuesday, March 17, 2020, 4:00 p.m.
140 Trinkle Hall**

Abstract: If someone asks you how far you live from something in a city, you might give several different answers - half a mile? 9 blocks? a 10-minute walk? A 3-minute drive? All of these are different ways of thinking about distance - and thus, different "geometries" on the city. I'll explain how a geometry is defined, what rules we have to follow, and how we can think about different geometries on cities. Then we'll talk about how these different geometries can help us understand how different people see their cities. No prior knowledge of mathematics is required, though there will be some multivariable calculus featured.

