

## ***ALGEBRAIC GEOMETRY SEMINAR***

**Speaker: Matthew Dyer**  
**University of Notre Dame**



**Date:** Tuesday, April 26, 2022

**Time:** 2:30 PM

**Location:** 258 Hurley Hall

**Zoom URL:** NA

***Lecture Title:***

**Multiply partially representable functors**

***Abstract***

Partially representable functors are multivariable set-valued functors which are representable in a subset of their arguments, viewed collectively as a single argument, with the complementary arguments fixed in any way. We discuss basic properties of functors which are partially representable in each of several subsets of their arguments, and structures involving them. Stricter incarnations of this notion of multiply partially representable functors include functors, (parameterized, multivariable) adjunctions and various more exotic things. Prerequisites for understanding the main ideas will be kept minimal; the talk will begin with a simple motivating example from commutative algebra, and basic notions will be introduced in the context of sets and functions.