

***PDE, COMPLEX ANALYSIS AND  
DIFFERENTIAL GEOMETRY SEMINAR***

**Guest Speaker: Curtis Holliman**  
**The Catholic University of America**



**Date:** Thursday, July 29, 2021

**Time:** 3:00 PM

**Location:** 258 Hurley Hall

***Lecture Title:***

**Wave collisions and instability for shallow water wave models**

***Abstract***

In this talk, we shall consider a family of shallow water wave models that includes the Camassa-Holm equation, and we will discuss various scenarios of water wave collisions. These collisions can result in norm-inflation, other types of discontinuities, and nonuniqueness. This work is in collaboration with Alex Himonas.