MODULI OF SURFACES IN $\mathbb{P}^3$

Wednesday April 4, at 4 PM, in Cupples I Room 199

Speaker: Kristin DeVleming (U Washington)

Abstract: In the early 2000s, Hacking used tools of the Minimal Model Program to construct a KSBA-like compactification of the moduli space of plane curves. I will talk about a higher dimensional analog of this compactification: compactifying the moduli space of surfaces in three-space using pairs $(X, D)$ representing degenerations of pairs $(\mathbb{P}^3, S)$. In particular, I will discuss boundedness and a partial classification of the normal threefolds $X$ appearing on the boundary.