Differential equations models can provide a different lens for students with strong mathematical backgrounds to approach works of literature, poetry, film, music, dance, and the visual arts. In this talk, we investigate a number of differential equations models that have been used to create or investigate artistic works. We will examine how mathematics can be used to illuminate the choreography of William Forsythe, the architecture of Santiago Calatrava and Antoni Gaudi, a story of Ray Bradbury, and the popularity of Justin Bieber.

Pizza will be served to colloquium participants after the talk.