PROJECT SUMMARY: A virtual reality system to recreate the archaeological experience using data and 3D models from the neolithic site of Çatalhöyük, in Anatolia, Turkey.

PROJECT OBJECTIVES
- Develop archaeological VR app containing models of real site.
- Allow manipulation of artifacts/"digging" within system.

DESCRIPTION
- Can view information from existing archaeological database contextually, in 3D space, for objects documented by field archaeologists.
- Allows for measurement, analysis of artifacts and land on-site.
- Built for Oculus and DiVE.
- For DiVE, companion apps built for Google Glass and iPad, which dynamically display information from Catalhoyuk site database relating to feature being examined.

WORKFLOW
- Digital Archaeologists capture 3D models of dig site and landscape through image-based modeling (photogrammetry), laser scanning, LIDAR, etc.
- 3D models of site, artifacts, are imported into Unity3D game engine, where:
  - Interactions and display are built to allow analysis and discovery within the application.
  - Application is built with Oculus Rift as head-mounted-display, and Razer Hydra tracked wands as input devices.

Acknowledgements: Thanks to David Zielinski and Nevio Danelon for help with technical and modeling aspects of this project.