The Dark Energy Survey (DES) at Stanford
https://www.darkenergysurvey.org

Opportunities for research projects in observational cosmology are available for the 2011/2012 academic year. Projects will focus on preparations for the Dark Energy Survey (DES) that is scheduled for “first light” in the Fall of 2012. DES is a broad ground-based optical survey that will use the 4m Blanco telescope located in Northern Chile. The scientific goals are measurements of cosmological parameters through the use of gravitational lensing, studies of clusters and large scale structure of galaxy populations. Projects include development of analysis techniques with simulated DES data, and studies with existing data from presently operating telescopes. Rotation projects can lead to continued work through the summer, and to thesis topics with DES.

Interested students are invited to talk further with Professors David Burke, Aaron Roodman, Rafe Schindler, and/or Risa Wechsler.