Name: Daniel Huber
Email: daniel.huber@nasa.gov
Institution: NASA Ames Research Center
Title: Asteroseismology of Exoplanet Host Stars
Type: Invited Talk
Session: Asteroseismology
Abstract: Asteroseismology is among the most powerful observational tools to characterize single stars. The high-precision photometry by Kepler has enabled the systematic detection of oscillations in stars with transiting exoplanets, allowing the combination of asteroseismology and transits to accurately characterize planetary systems. In this talk I will review recent asteroseismic studies of Kepler exoplanet host stars spanning from the main sequence to the red-giant branch. I will focus in particular on applications to measure spin-orbit inclinations in Kepler multi-planet systems, and their implications for formation theories of hot Jupiters. I will also give an outlook on asteroseismic studies of recently discovered Kepler exoplanet systems, and discuss future prospects of using asteroseismology to improve the characterization of a larger sample of exoplanet host stars.