SMCAS Presentation on Saturday. May 15, 2021

Dr. Dan Weisz

UC Berkeley, Associate Professor of Astronomy

Resolving the Local Universe with the Hubble and James Webb Telescopes

Saturday, May 15, 2021, via Zoom. <u>Click here to join</u> or use ID: 253 926 2920. Passcode: SMCAS Presentation at 8:00 p.m.

In his talk, Dr. Weisz highlights the amazing science and images produced by Hubble observations of local galaxies from the past three decades. The pinnacle of these studies is the Panchromatic Hubble Andromeda Treasury (PHAT) program, an 800-hour Hubble survey of our sibling galaxy Andromeda, and one of the largest Hubble programs ever conducted. Dr. Weisz will describe the PHAT survey and its scientific impact and discuss plans for the James Webb Space Telescope, which will succeed Hubble as the most sensitive telescope in existence following its launch in 2021.

Dr. Daniel Weisz is an Associate Professor of Astronomy at UC Berkeley, and an observational astronomer. His research is centered around the local Universe. He uses facilities such as the Hubble Space Telescope, Keck, and (soon) the James Webb Space Telescope along with "archaeological" techniques to reconstruct the formation histories of local galaxies. He has been at the forefront of near-field cosmology, which connects that fossil record of local galaxies to our theoretical and observational knowledge of the very early Universe. He has received national and international recognition for his research, including an Alfred. P Sloan Fellowship, an Alexander von Humboldt Fellowship, and the 2019 Newton Lacy Pierce Prize for outstanding achievements in observational astronomy, awarded by the American Astronomical Society. As principle investigator of the James Webb Space Telescope Early Release Science Program for Resolved Stellar Populations, Weisz will be one of the first people to use the James Webb telescope.