I will describe work in progress, with Avner Karasik and Zohar Komargodski, in which we use supersymmetric localization techniques to study the low-energy dynamics of BPS vortex-strings in 4d, N=2 supersymmetric QCD. The theories that we study have a moduli space of BPS-vortices, and the low energy fluctuations around a stable vortex solution are captured by a two-dimensional N=(2,2) theory on the worldsheet of the vortex. We propose a prescription for extracting the two-sphere partition function of the worldsheet theory from the four-sphere partition function of the four-dimensional parent theory. We use this prescription to extract information on the worldsheet theory in cases that were not discussed in the literature, and to discuss the existence of a two-dimensional effective description when the bulk theory is not gapped.