

In this talk I will discuss about the unirationality of different moduli spaces of curves: the most famous M_g , the moduli space of smooth curves of genus g ; $M_{g,n}$, the moduli space of n -pointed smooth curves; and the Hurwitz space $H_{\{g,d\}}$, parametrizing d -sheeted simply branched covers of the projective line by smooth curves of genus g . After introducing the main known results and open questions, I will report on some recent advances, based on works in collaboration with F.-O. Schreyer and H. Keneshlou.