Abstract: I will discuss compactifications of the moduli space of (d,d) curves on $\mathbb{P}1 \times \mathbb{P}1$, focusing in particular on the case $d = 4$. We regard such a curve as a log Fano pair $(\mathbb{P}1 \times \mathbb{P}1, aC)$, where $a$ is a rational number, and study the compactifications coming from K-stability and establish a wall crossing framework as $a$ varies. In the case $d = 4$, Laza and O’Grady show that one can interpolate between the GIT moduli space of (4,4) curves and a Baily-Borel compactification of degree 4 K3 surfaces with a series of explicit VGIT wall crossings. We show that these VGIT walls coincide exactly with the K moduli walls described above. This is joint work with Kenneth Ascher and Yuchen Liu.