The [2,3] Wittig rearrangement. I am interested in the synthesis of organic molecules. In particular, I look at reactions with more than one stereochemical outcome and try to understand what variables control that outcome. Currently, we are looking at the [2,3] Wittig rearrangement and whether the relative stereochemistry of the process can be predicted and controlled. By invoking the chair-like transition states below, it has been demonstrated that the *syn* isomer predominates over the *anti* isomer by a substantial margin when the R group is H. Our goal is to examine this reaction with substituents other than hydrogen [R = Me, Et, $CH_2Si\ Me_3$] to see how the previously observed selectivity changes.