Abstract: In this talk, we give a formula for the number of permutations that avoid the split patterns $3 | 12$ and $23 | 1$ with respect to a position $r$. Such permutations count the number of Schubert varieties for which the projection map from the flag variety to a Grassmannian induces a fiber bundle structure. We will also give a formula for the corresponding bivariate exponential generating function and show how it is related to modified Bessel functions.