Complex dynamics offers wonderful opportunities for undergrads to get actively involved in interesting research projects. After all, we researchers in this field are still trying to understand the simple quadratic function $z^2 + c$ which, when iterated, yields incredibly beautiful yet still not understood objects like the Mandelbrot and Julia sets. So how about other complex functions? In this talk I will describe briefly some of the results that undergrad students and I have come up with in a series of seven papers over the past six years, all involving the rational maps $z^2 + c + \lambda/z^2$. We shall see that adding the pole at 0 to the quadratic family changes the Julia sets dramatically but often yields structures that are understandable. This is joint work with my former students Yakov Shapiro, Mark Morabito, and Robert Kozma. (Received July 27, 2011)