1056-Z1-102 Neil Nicholson* (nicholsonn@william.jewell.edu), Department of Physics and Mathematics, 500 College Hill, Box 1107, Liberty, MO 64068. Chess, Church, and Knots: Statistics Through Service and Research.

A one-semester non-major statistics course typically does not cover non-parametric tests, those usually most applicable to student research projects, and many times, mathematics majors are hardly exposed to statistical work. I will discuss three methods I have used to teach these advanced methods to both mathematics and non-mathematics majors, utilizing service learning and mathematics research. (Received July 27, 2009)