## **CODY SOLIE**, University of Regina Database of Intersection Density for Permutation Groups

The intersection density of a permutation group is the ratio of the size of a largest intersecting set in a permutation group, compared to the size of the stabilizer of a point. Many families of groups have been shown to have intersection density equal to 1. Recent work has tried to find groups with intersection density larger than one. A key tool for this work which has been missing is a centralized, comprehensive database of known intersection density for small groups. We are working to create this database as a public resource, and we will discuss our computational techniques and relevant theory which allow us to gather these results.