

## PMATH 950 Dynamics of Groups

This course will be an introduction to the dynamics of groups. We will cover the basic theory of topological and measurable actions of groups, and the various ways that properties of the groups are reflected in these actions. We will then treat some topics of current research interest, including the dynamical approach to Ramsey theory and additive number theory, approximation properties of groups, random walks and Poisson boundaries, and the recent characterizations of strongly amenable and Choquet-Deny groups.