## RESEARCH STATEMENT OF KEVIN WORTMAN

My research involves the geometry of arithmetic groups – such as  $SL(n, \mathbf{Z})$  – and related groups – such as  $SL(n, \mathbf{Z}[1/p])$ ,  $SL(n, \mathbf{F}[t])$  where **F** is a finite field,  $SL(n, \mathbf{Z}[t])$ , and groups that act naturally as noncocompact lattices on CAT(0) spaces.

Recently I have been interested in questions about the cohomology of groups through geometric methods, and about isoperimetric inequalities for the groups listed above.