

A polynomial is said to be unimodal if its coefficients are non-decreasing and then non-increasing. The domination polynomial of a graph  $G$  of order  $n$  is the polynomial  $D(G, x) = \sum_{i=\gamma(G)}^n d(G, i) \cdot x^i$ , where  $d(G, i)$  is the number of dominating sets of  $G$  of size  $i$ , and  $\gamma(G)$  is the domination number of  $G$ . In this presentation, we will show that the directed domination polynomial of all oriented paths and cycles are unimodal.