**Alexander Smith\***, adsmith@math.harvard.edu. $2^k$-*Selmer groups and Goldfeld's conjecture.*

Take $E$ to be an elliptic curve over a number field whose four torsion obeys certain technical conditions. In this talk, we will outline a proof that 100% of the quadratic twists of $E$ have rank at most one. To do this, we will find the distribution of $2^k$-Selmer ranks in this family for every $k > 1$. (Received September 24, 2018)