**Title:** Bounds for subsets of  $\ F_p^n \$  mathbb $F_p^n \$  without L-shaped configurations

Abstract: I will discuss the difficult problem of proving reasonable bounds in the multidimensional generalization of Szemer\'edi's theorem and describe a proof of such bounds for sets lacking nontrivial configurations of the form \$(x,y), (x,y+z), (x,y+2z), (x+z,y)\$ in the finite field model setting.