

School: Albuquerque Academy  
Subject: Sociology  
Title: Simulation of Emergency Crowd Flow  
Team Members:  
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The problem that we hope to solve is the movement of crowds in emergency situations. We hope to achieve a realistic simulation of the aforesaid subject and a machine learning algorithm to improve the layouts of various public spaces to allow faster, safer, and more efficient exits in panicked conditions. We hope to use NetLogo or Python to perform the simulation and algorithm, and to study real-life data on crowd flow.