Abstract: I was asked by the JMU administration to lead a group to look at student movement on campus at JMU. I will talk about the approach the team took and some of the mathematics and statistics we used and discovered for this modeling problem. The second modeling problem I was asked to be involved with is a study of head movement for people who have neurological problems. This study involves rotation of the head. Again I will discuss the mathematics and statistics used in modeling this problem. Both modeling problems are accessible to students who are or have taken Math 237 and Math 238.