Final Project Process

* + Notes, 11/11/2017
  + Datasets:
* Austin\_UF\_R2R\_2015
* Austin\_Annual\_Crime\_Dataset\_2015
  + Project Process

1. **Review Austin datasets (2015)** by Wed. 11/15
2. **Read through Identifying Police Officers at Risk of Adverse Events** by Wed. 11/15
   1. Look for:
      1. Models mentioned
      2. Predictive variables
3. **Determine UoF frequency and variance** on Wed. 11/15
   1. Base rate
      1. Mean & Median
   2. Where is there significant variation from the mean?
      1. Why is there significant variation in the mean?
         1. What variables could explain why this location has more UoF than the base rate?
4. **Look at other variables in the same locations using Jamie’s code:**
   1. e.g. officer commission date, officer rank, neighborhood SES etc.
5. **Determine outliers**
   1. Is there a certain crime that is driving overall crime rates and/or UoF?
      1. E.g. Is the majority of crime something trivial?
   2. Consider dropping these
6. Formulate actual questions for project
   1. See “Potential Questions” and “Variables of Interest” below
   * Potential Questions

* Aggregate UoF
  + If a UoF incident happens in Location A, is a future UoF incident more likely to happen in Location B which is close to A?
* Individual Officer UoF
  + What demographic, SES etc. variables predict an individual offficer’s proclivity to use force?
  + Given a certain condition (e.g. time of day, if a crime happened in this location recently), what is the likelihood that an individual officer will commit this crime?
  + Variables of Interest
* SES of locations
* Crime
* Crime Location
* Use of Force (UoF)
* UoF Location
* Officer Years of Service
  + Need to figure out how long an officer has been with the department/org that their UoF incident occurred in
* Officer Commission Date
* Officer Rank