ECS 132 Term Project

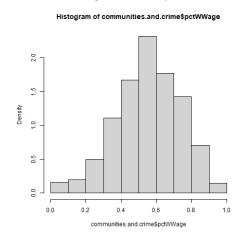
Steven Alvarado, Russell Chien, and Ruth Hailu University of California, Davis June 2023

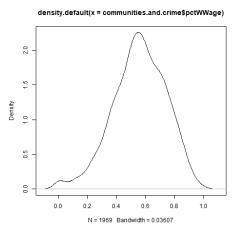
Chapter 1

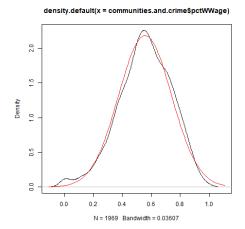
The Normal Family

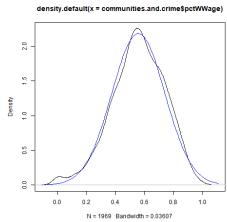
1.1 Communities and Crime: pctWWage

Our group observed that the variable **pctWWage** of the Communities and Crime dataset seemed well-approximated by the normal family of continuous distributions. According to the UCI Machine Learning Repository, pctWWage is described as the percentage of households within the United States with wage or salary income in 1989.









Chapter 2

The Exponential Family

2.1 Communities and Crime: PctLargHouse-Fam

For the exponential family of continuous distributions, we observed that the variable **PctLargHouseFam** was a suitable approximation. According to the UCI Machine Learning Repository, PctLargHouseFam is described as the percentage of family households with six or more family members.

