# EDA for NBA

Austin Stephen

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Distance Traveled in Game

Take Aways:

- Players cover more distance on offense than defense.This makes sense, running plays requires more movement than defending them.
- Over the last 7 seasons distance is roughly similar

- Guards move the most, forwards the second most, and centers the least. This spread between positions is approximately the same across offense and defense
- There may be an inverse correlation between distance a team travels per game and wins. Are they more efficient? Is this not the opposite of what we expect?

Distance Traveled in Game for Players CDF
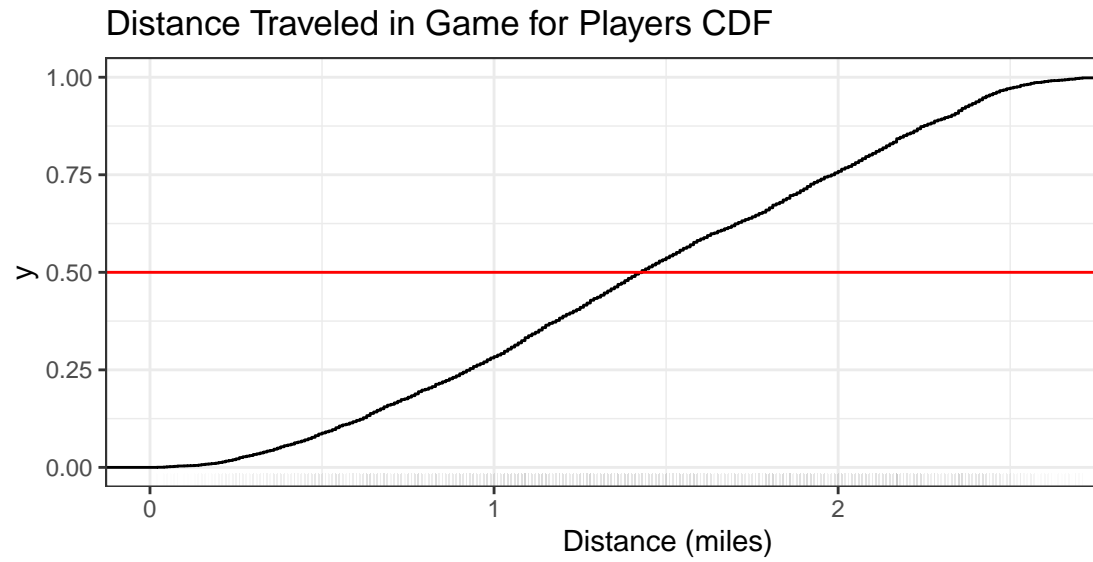
Distribution of Distance
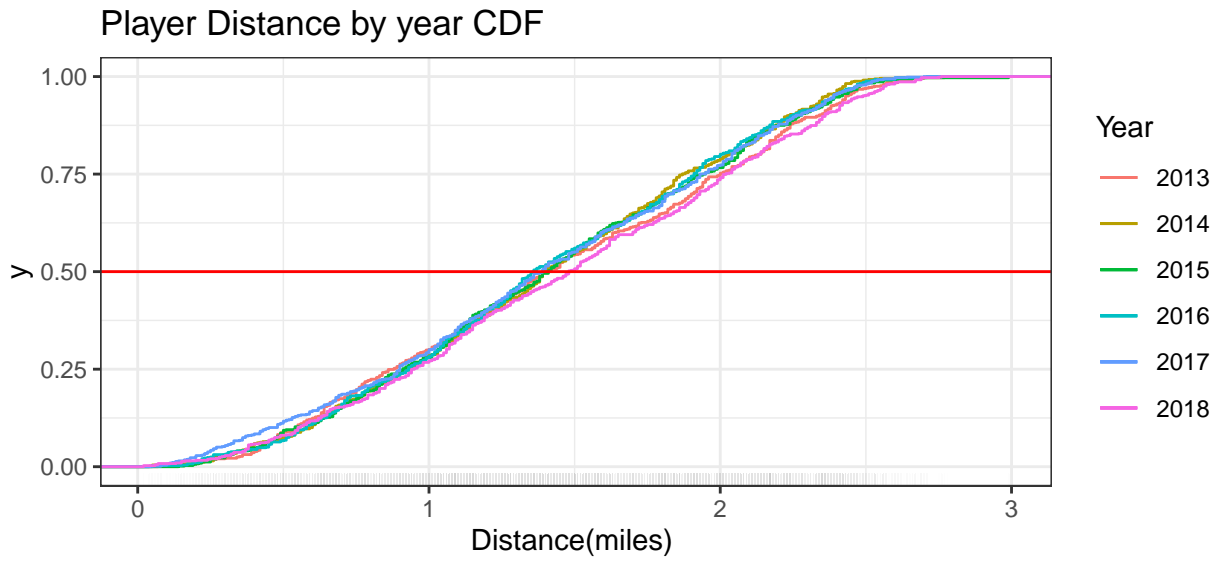
Distance Offense v. Defense CDF
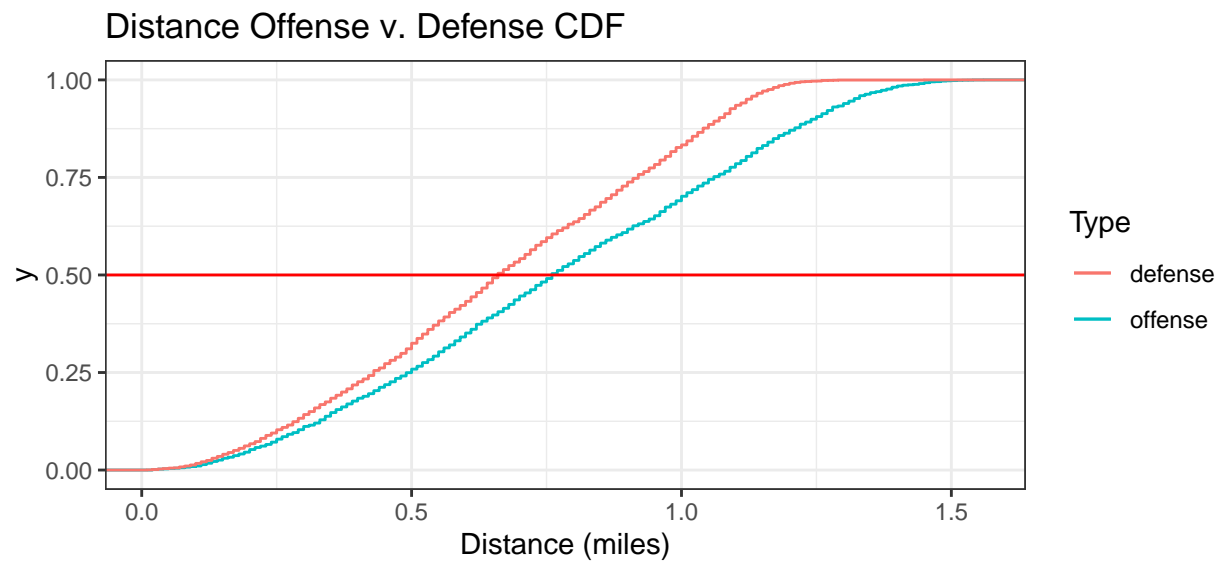
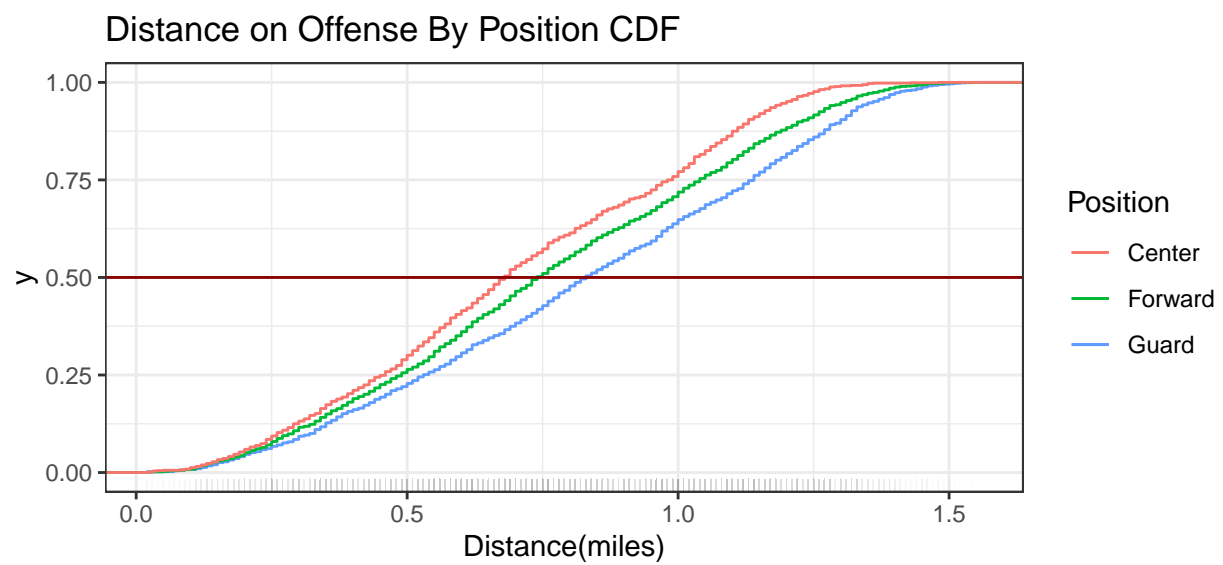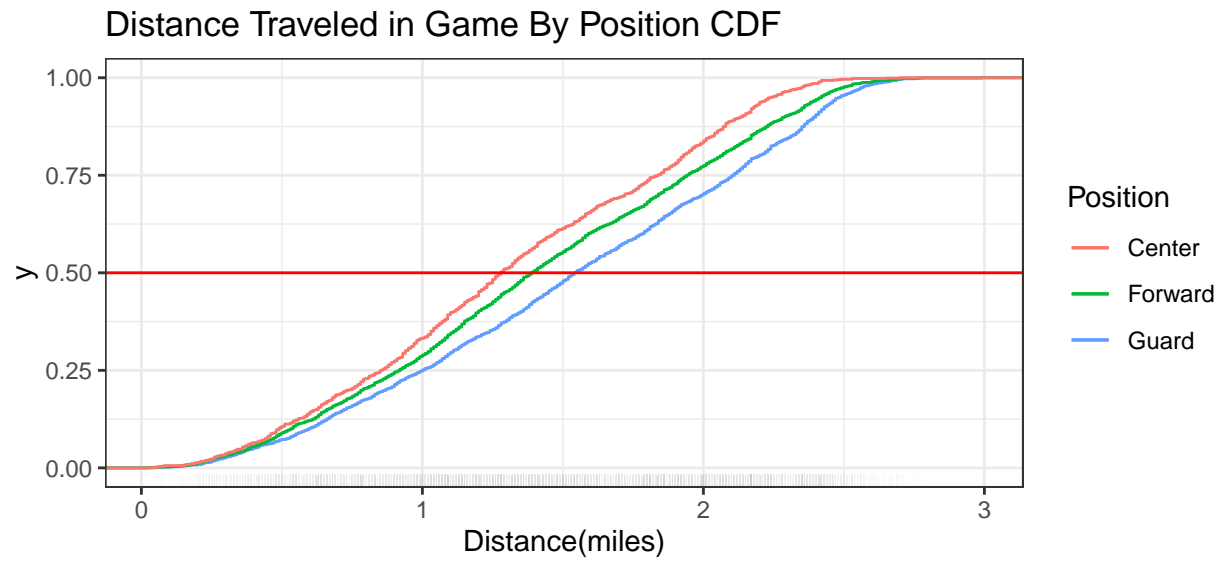**Entire Game:** min is 0.020, max is 2.990, and mean is 1.425 miles
Offense: min is 0.020, max is 1.560, and mean is .765 miles
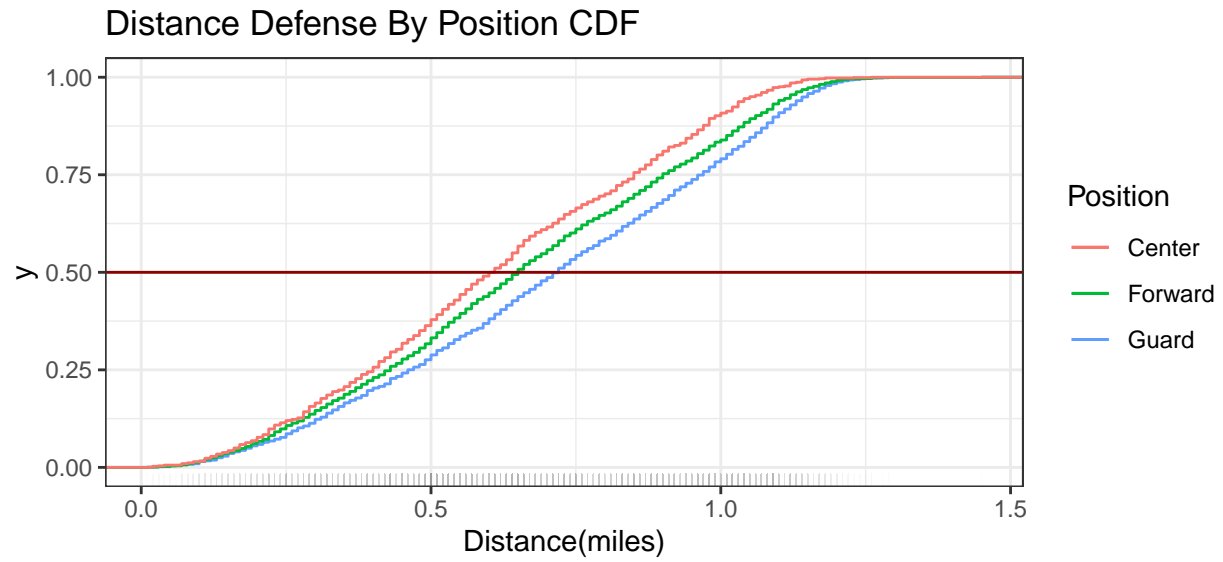**Defense:** min is .010, max is 1.29, and mean is .671 miles

Player Distance by year CDF
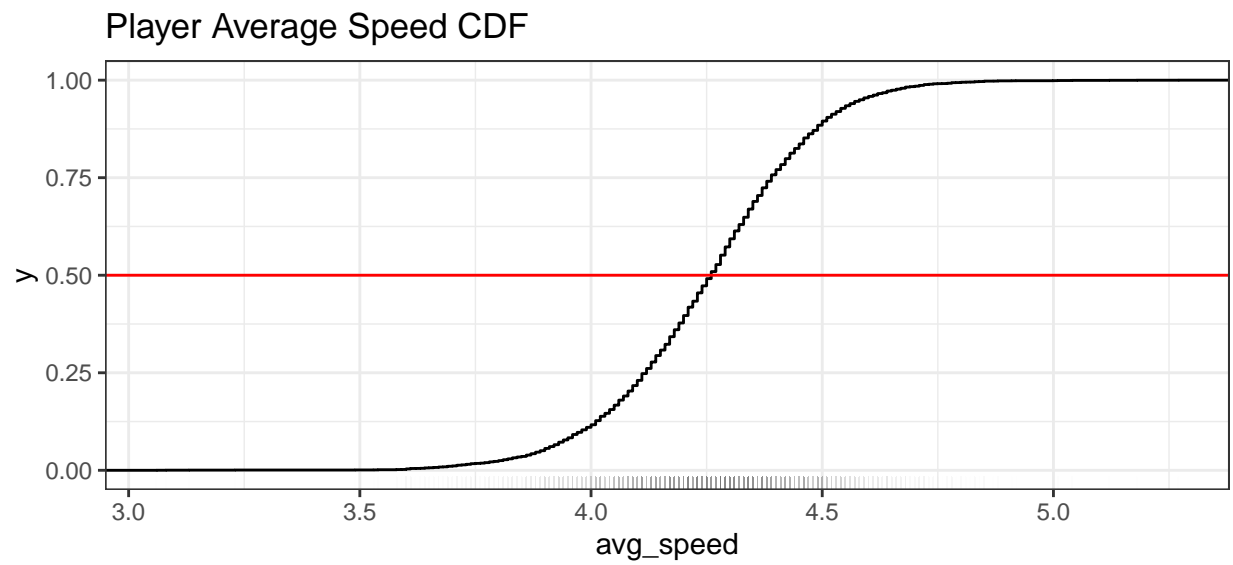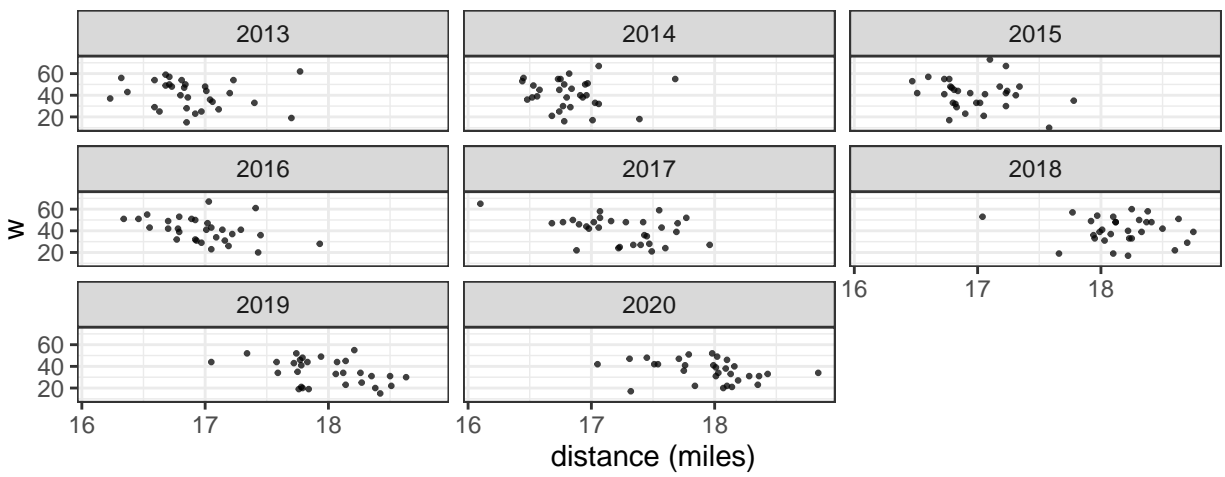
Distance Traveled in Game By Position CDF

Distance on Offense By Position CDF

Distance Defense By Position CDF

Speed in Game

Player Average Speed CDF

Teams wins and average per distance per game

distance (miles)

**distance is the sum of players on the team per game averaged