The Stephen Curry Effect

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CMSE 201, Section 008
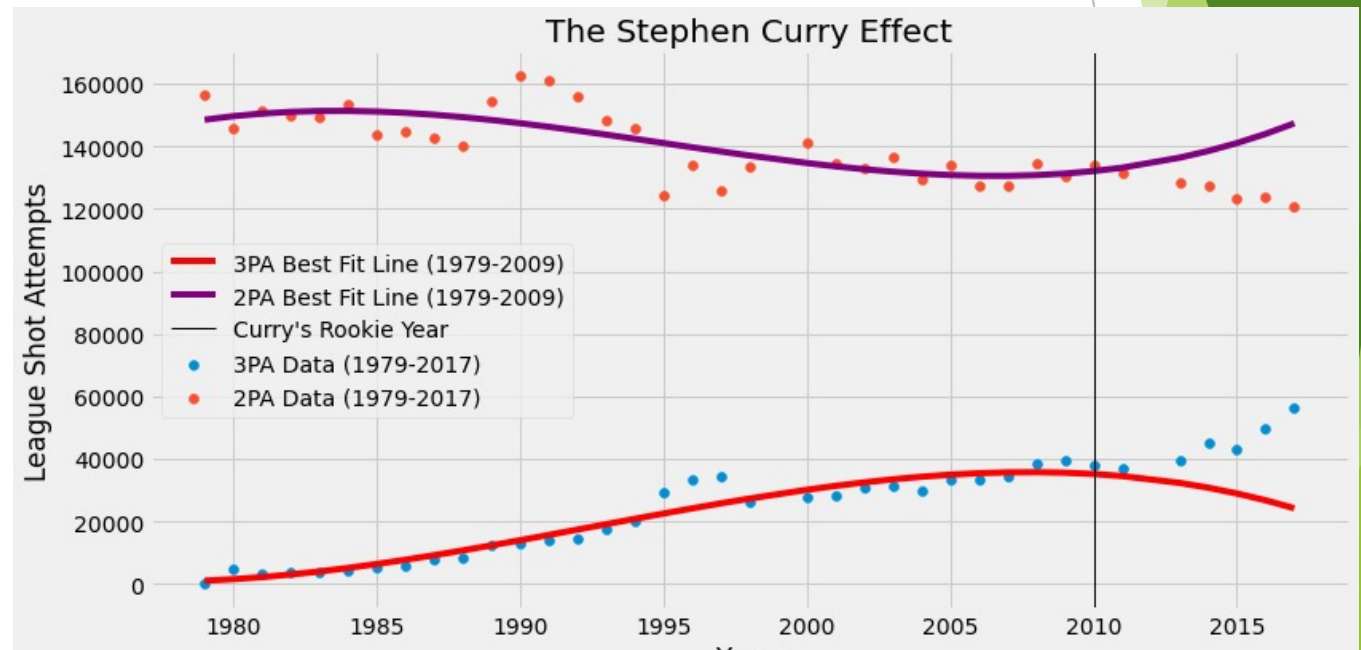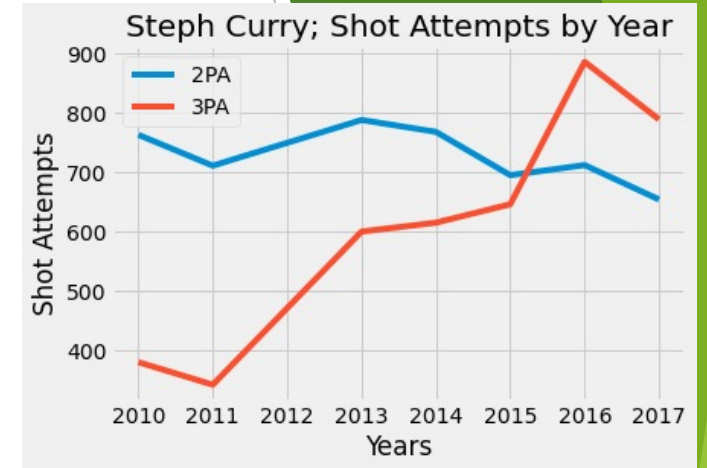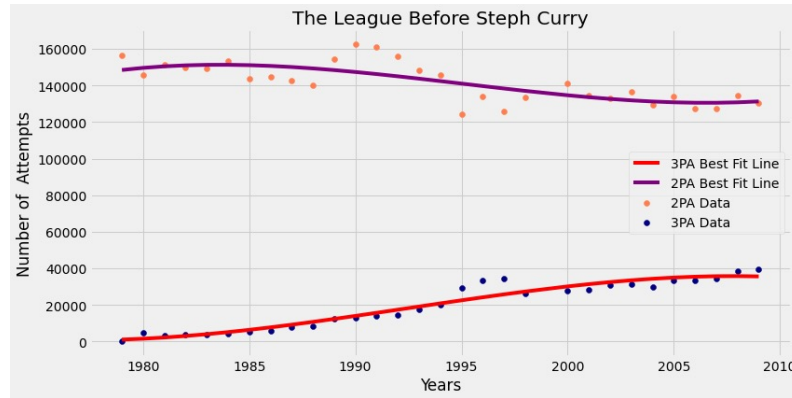
Introduction and Research Aims

- **What effect did Stephen Curry have on the NBA?**
  - Everyone knows Steph Curry... why?
  - How has three-point shooting changed the game? More rebounds? Higher or lower efficiency?
- Data from Kaggle.com
  - https://www.kaggle.com/drgilermo/nba-players-stats
- Included specific variables for shooting, rebounding, and efficiency
- Filtered data to begin from 1979

	Year	Player	Pos	Age	Tm	G	MP	TS%	PER	FG	...	FT	FTA	FT%	3PA	3P	3P%	PTS	TRB	ORB	DRB
5382	1979.0	Kareem Abdul-Jabbar*	C	31.0	LAL	80.0	3157.0	0.612	25.5	777.0	...	349.0	474.0	0.736	NaN	NaN	NaN	1903.0	1025.0	207.0	818.0
5383	1979.0	Tom Abernethy	PF	24.0	GSW	70.0	1219.0	0.550	13.6	176.0	...	70.0	94.0	0.745	NaN	NaN	NaN	422.0	216.0	74.0	142.0
5384	1979.0	Alvan Adams	C	24.0	PHO	77.0	2364.0	0.570	20.4	569.0	...	231.0	289.0	0.799	NaN	NaN	NaN	1369.0	705.0	220.0	485.0
5387	1979.0	Tiny Archibald*	PG	30.0	BOS	69.0	1662.0	0.537	13.1	259.0	...	242.0	307.0	0.788	NaN	NaN	NaN	760.0	103.0	25.0	78.0
5389	1979.0	Dennis Awtrey	C	30.0	TOT	63.0	746.0	0.490	6.7	44.0	...	41.0	56.0	0.732	NaN	NaN	NaN	129.0	151.0	42.0	109.0

5 rows × 26 columns

Did Curry really have an effect?

The League Before Steph Curry

Steph Curry; Shot Attempts by Year

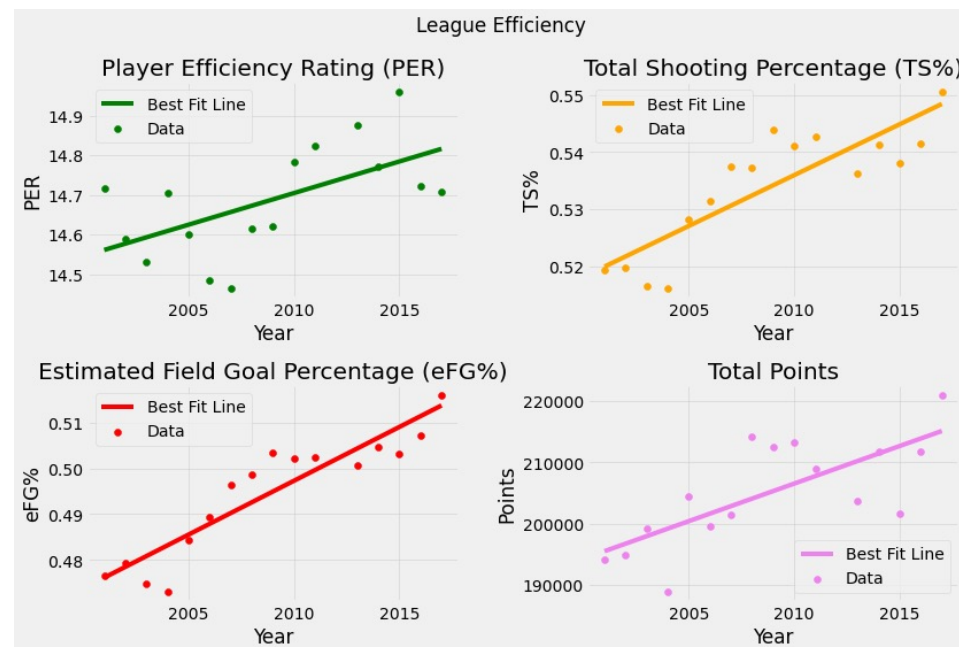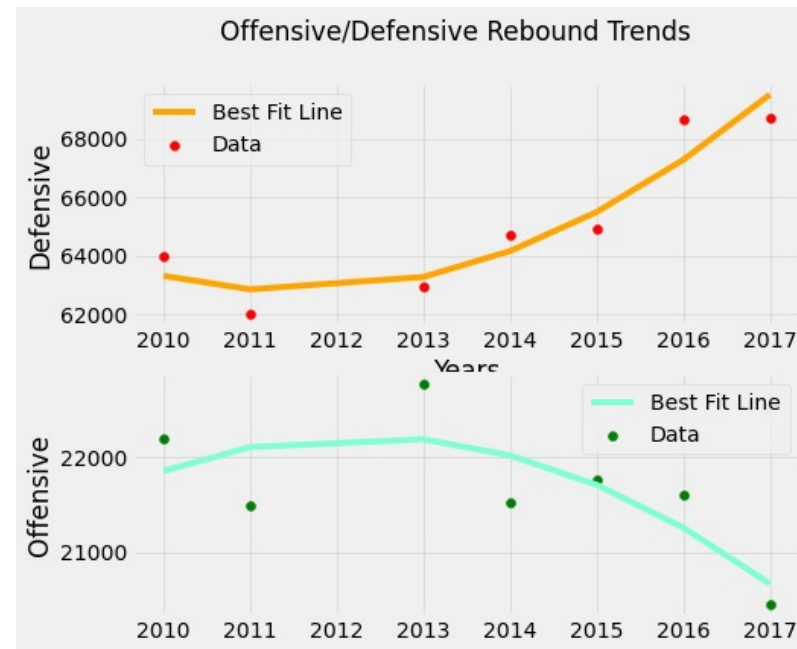The Stephen Curry Effect

Impact on Each Position's 3PA

- Each position increased attempts
- Notable increases
  - PF @ 95%
  - C @ 186%

3-Point Attempts by Position

Ratio of 3PA's by Position (2017:2010)
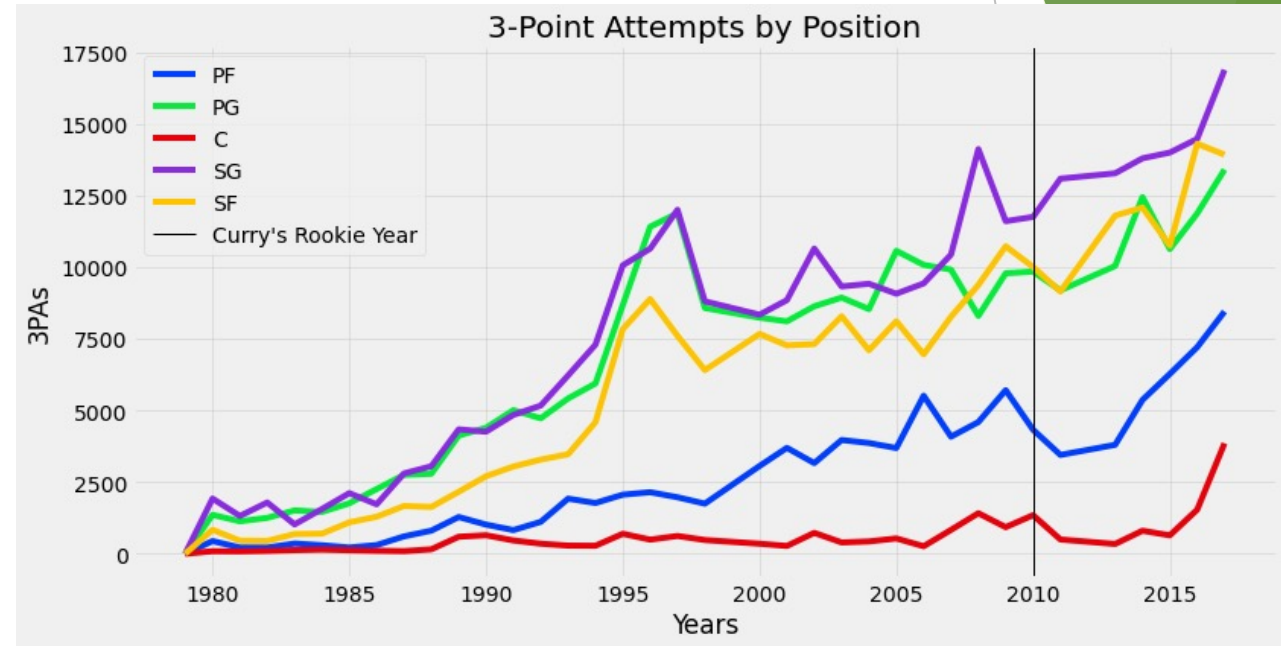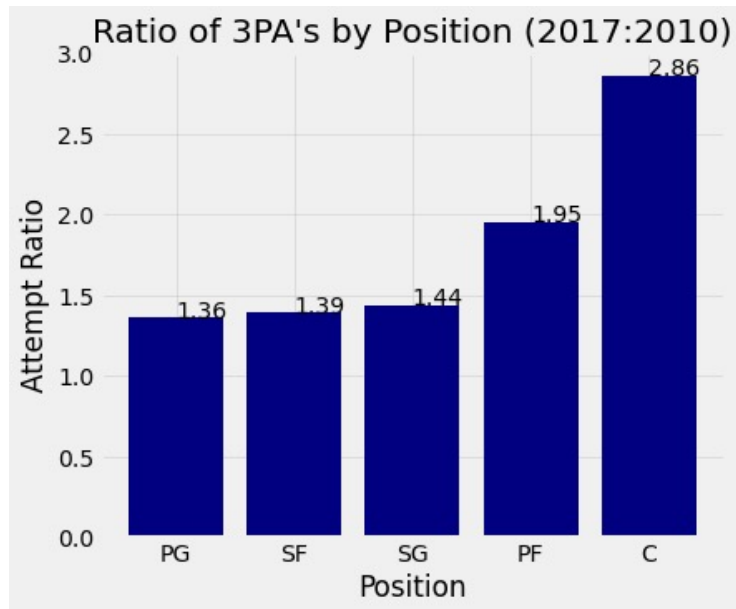
Other League-wide Impacts

- Rebounding
  - offensive rebounding is decreasing
  - defensive rebounding is increasing
- Efficiency
  - all four variables increasing

Conclusion and References

- Steph Curry has had a *major* impact on the league, in multiple facets of the game
  - Every position is shooting at least 30% more threes since Curry entered the league
  - Centers have nearly tripled their amount of 3-point attempts
- Increase in 3-point shooting is affecting rebounds and efficiency
- The future of the league may be heading towards an even amount of 2-point and 3-point attempts

Works Cited

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