```
In [6]: import os
        import numpy as np
        import pandas as pd

        from matplotlib import pyplot as plt
        import matplotlib.style as style
        import seaborn as sns

        style.use('fivethirtyeight')
```

Load in Data

```
In [7]: nk_pg = pd.read_csv('Jokic_per_game.csv', delimiter=',')
        nk_p100 = pd.read_csv('Jokic_per_100_poss.csv', delimiter=',')
        nk_p36 = pd.read_csv('Jokic_per_36.csv', delimiter=',')
        nk_ca = pd.read_csv('Jokic_carreer_advanced.csv', delimiter=',')


        thj_pg = pd.read_csv('thj_per_game.csv', delimiter = ',')
        thj_ca = pd.read_csv('thj_carreer_advanced.csv', delimiter = ',')
```
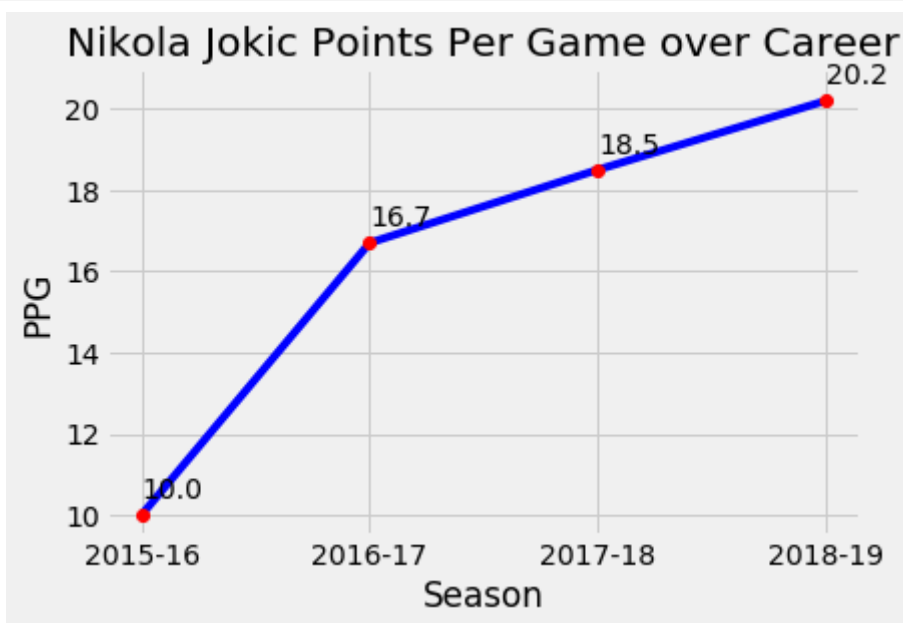
Player I Like: Nikola 'The Joker' Jokic

In [62]:
```python
# PPG
fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

plt.xlabel('Season');
plt.ylabel('PPG');
plt.ylim(9.5, 21.0)
plt.title("Nikola Jokic Points Per Game over Career")
sn = nk_pg.loc[: , "Season"]
ppg = nk_pg.loc[: , "PTS"]

lp = plt.plot(nk_pg.loc[: , "Season"], nk_pg.loc[: , "PTS"],'b') #training
lp + plt.plot(nk_pg.loc[: , "Season"], nk_pg.loc[: , "PTS"], 'ro') #validat

for i in range(len(ppg)):
    axes_arr.annotate(str(ppg[i]), xy = (sn[i],ppg[i]), xytext= (sn[i],ppg[

plt.show()
```

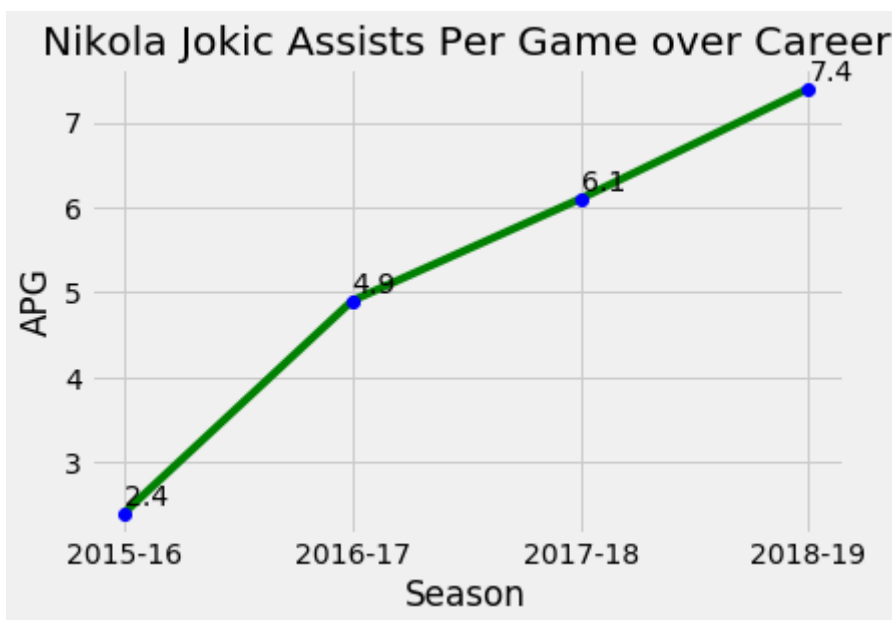```
In [65]: #APG
         fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

         plt.xlabel('Season');
         plt.ylabel('APG');
         plt.title("Nikola Jokic Assists Per Game over Career")
         sn = nk_pg.loc[: , "Season"]
         ast = nk_pg.loc[: , "AST"]

         lp = plt.plot(nk_pg.loc[: , "Season"], nk_pg.loc[: , "AST"],'g') #training
         lp + plt.plot(nk_pg.loc[: , "Season"], nk_pg.loc[: , "AST"], 'bo') #validat

         for i in range(len(ast)):
             axes_arr.annotate(str(ast[i]), xy = (sn[i],ast[i]), xytext= (sn[i],ast[

         plt.show()
```

In [90]:
```python
#PER
fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

plt.xlabel('Season');
plt.ylabel('PER');
plt.title("Nikola Jokic PER over Career")
plt.ylim(14,28)
sn = nk_ca.loc[: , "Season"]
per = nk_ca.loc[: , "PER"]

avg = [15.00,15.00,15.00,15.00,15.00]

lp = plt.plot(nk_ca.loc[: , "Season"][0:4], nk_ca.loc[: , "PER"][0:4],'c',
lp + plt.plot(nk_ca.loc[: , "Season"], nk_ca.loc[: , "PER"], 'wo') #validat
lp + plt.plot(nk_ca.loc[: , "Season"][0:4], avg[0:4], label = 'league avera

for i in range(len(per)):
    axes_arr.annotate(str(per[i]), xy = (sn[i],per[i]), xytext= (sn[i],per[

plt.legend()
plt.show()

#league average PER is 15.00 every season, he ranks 5th this season
```
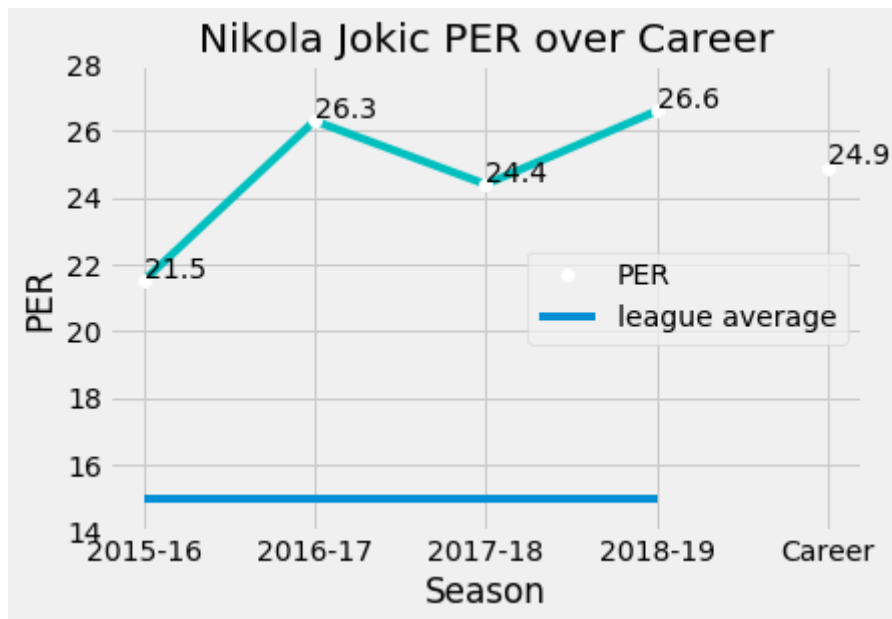
In [89]:
```python
#Win Shares
fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

plt.xlabel('Season');
plt.ylabel('Win Shares');
plt.title("Nikola Jokic Win Shares over Career")
sn = nk_ca.loc[: , "Season"]
ws = nk_ca.loc[: , "WS"]

lp = plt.plot((nk_ca.loc[: , "Season"])[0:4], (nk_ca.loc[: , "WS"])[0:4],'y
lp + plt.plot(nk_ca.loc[: , "Season"], nk_ca.loc[: , "WS"], 'mo') #validati

for i in range(len(ws)):
    axes_arr.annotate(str(ws[i]), xy = (sn[i],ws[i]), xytext= (sn[i],ws[i]

plt.show()

#league average PER is 15.00 every season, he ranks 5th this season
```
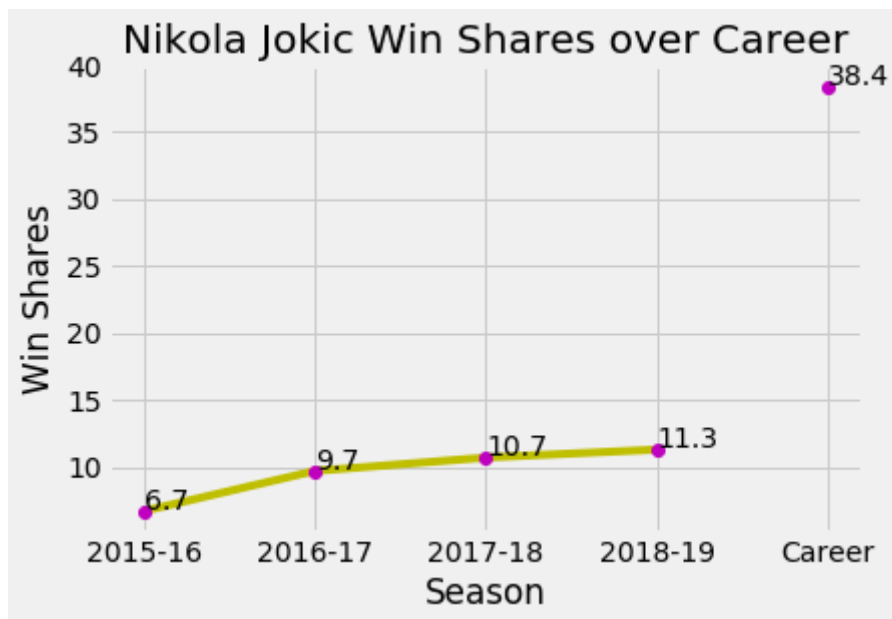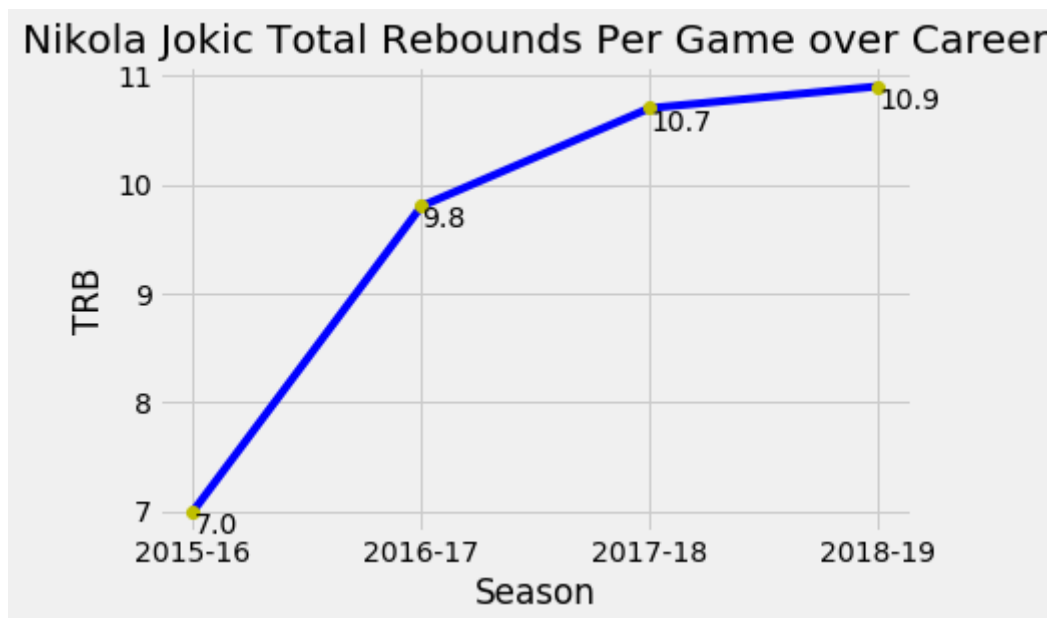
In [94]:
```python
# TRB
fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

plt.xlabel('Season');
plt.ylabel('TRB');
plt.title("Nikola Jokic Total Rebounds Per Game over Career")
sn = nk_pg.loc[: , "Season"]
trb = nk_pg.loc[: , "TRB"]

lp = plt.plot(nk_pg.loc[: , "Season"], nk_pg.loc[: , "TRB"],'b') #training
lp + plt.plot(nk_pg.loc[: , "Season"], nk_pg.loc[: , "TRB"], 'yo') #validat

for i in range(len(trb)):
    axes_arr.annotate(str(trb[i]), xy = (sn[i],trb[i]), xytext= (sn[i],trb[

plt.show()
```
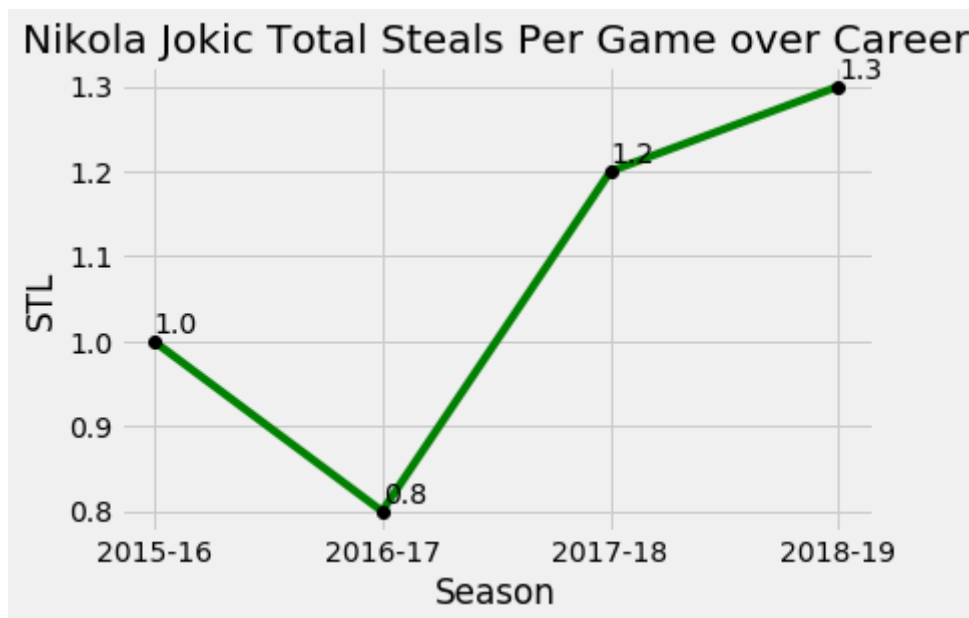
In [99]:
```python
# STL
fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

plt.xlabel('Season');
plt.ylabel('STL');
plt.title("Nikola Jokic Total Steals Per Game over Career")
sn = nk_pg.loc[: , "Season"]
stl = nk_pg.loc[: , "STL"]

lp = plt.plot(nk_pg.loc[: , "Season"], nk_pg.loc[: , "STL"],'g') #training
lp + plt.plot(nk_pg.loc[: , "Season"], nk_pg.loc[: , "STL"], 'ko') #validat

for i in range(len(stl)):
    axes_arr.annotate(str(stl[i]), xy = (sn[i],stl[i]), xytext= (sn[i],stl[

plt.show()
```
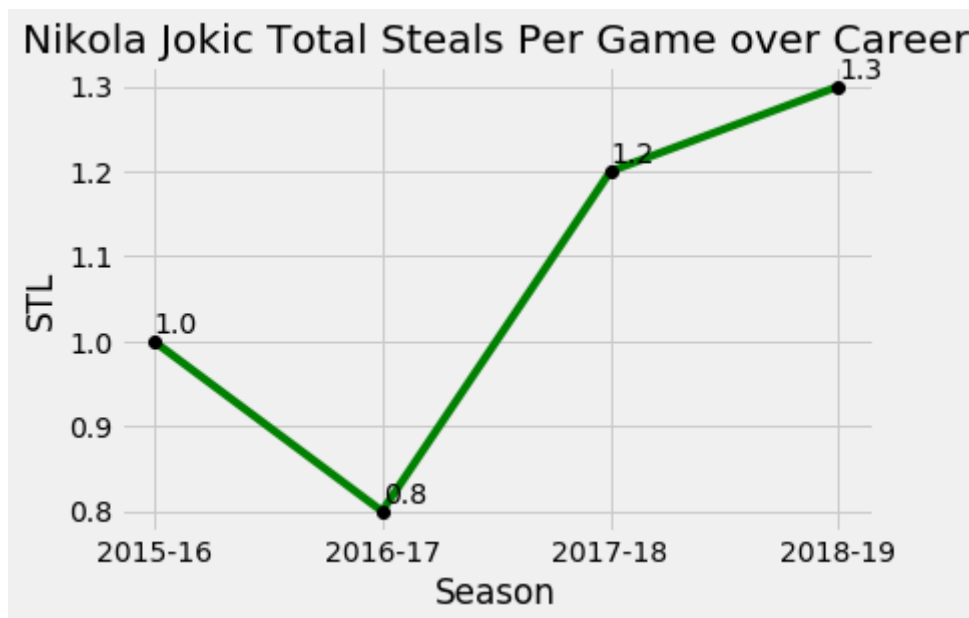
```
In [99]: # STL
         fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

         plt.xlabel('Season');
         plt.ylabel('STL');
         plt.title("Nikola Jokic Total Steals Per Game over Career")
         sn = nk_pg.loc[: , "Season"]
         stl = nk_pg.loc[: , "STL"]

         lp = plt.plot(nk_pg.loc[: , "Season"], nk_pg.loc[: , "STL"],'g') #training
         lp + plt.plot(nk_pg.loc[: , "Season"], nk_pg.loc[: , "STL"], 'ko') #validat

         for i in range(len(stl)):
             axes_arr.annotate(str(stl[i]), xy = (sn[i],stl[i]), xytext= (sn[i],stl[

         plt.show()
```

Nikola Jokic Total Steals Per Game over Career

Player I Dislike: Tim Hardaway Jr.

In [22]:
```python
# PPG
fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

plt.xlabel('Season');
plt.ylabel('PPG');
plt.title("Tim Hardaway Jr. Points Per Game over Career")
sn = thj_pg.loc[: , "Season"]
ppg = thj_pg.loc[: , "PTS"]

lp = plt.plot(thj_pg.loc[: , "Season"], thj_pg.loc[: , "PTS"],'r') #trainin
lp + plt.plot(thj_pg.loc[: , "Season"], thj_pg.loc[: , "PTS"], 'yo') #valid

for i in range(len(ppg)):
    axes_arr.annotate(str(ppg[i]), xy = (sn[i],ppg[i]), xytext= (sn[i],ppg[

plt.show()
```
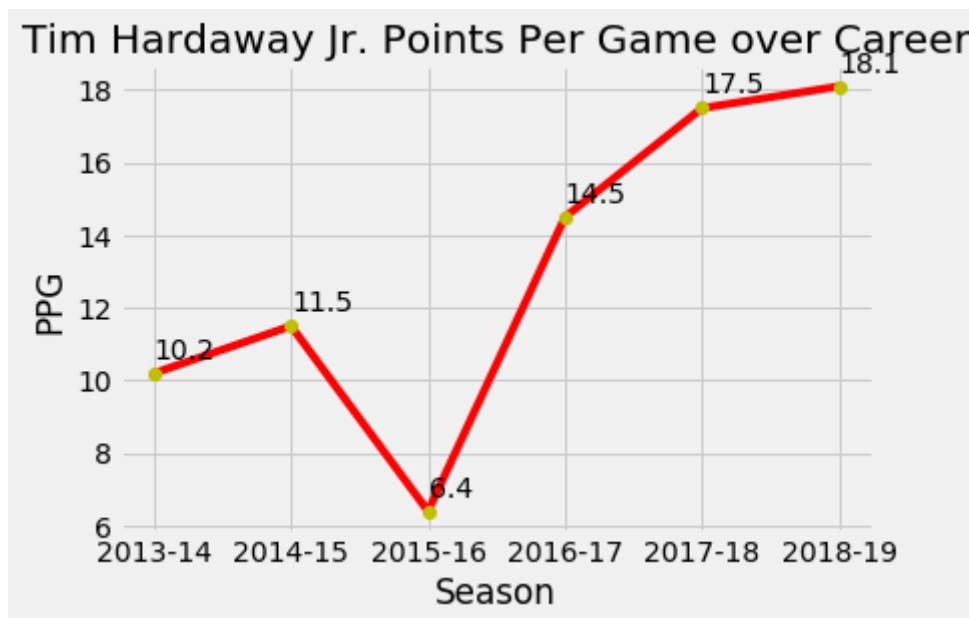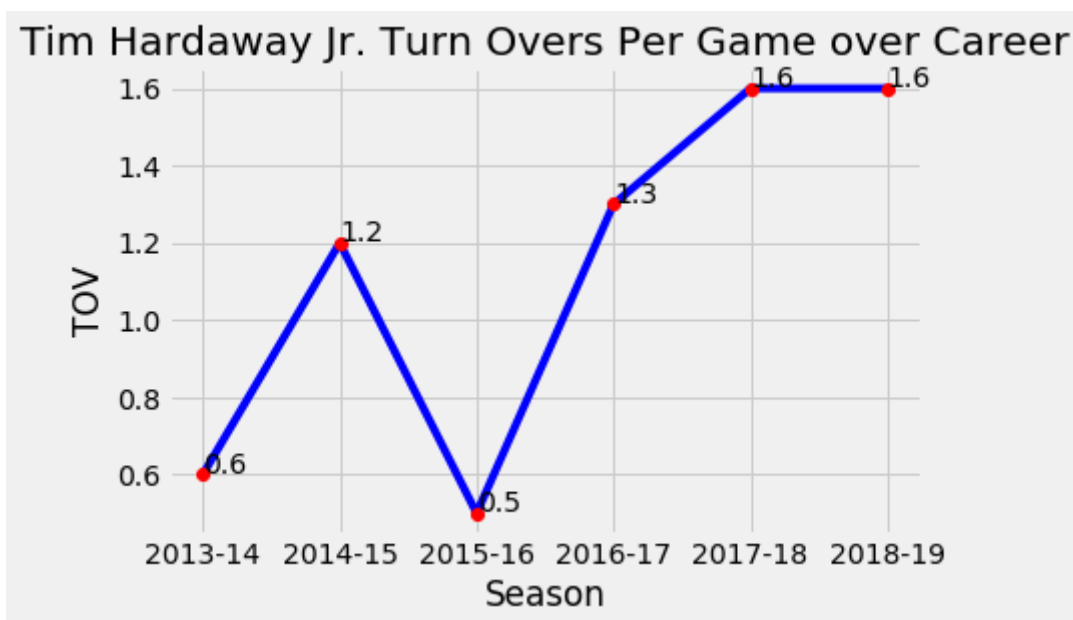
In [13]:
```python
# TOV
fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

plt.xlabel('Season');
plt.ylabel('TOV');
plt.title("Tim Hardaway Jr. Turn Overs Per Game over Career")
sn = thj_pg.loc[: , "Season"]
tov = thj_pg.loc[: , "TOV"]

lp = plt.plot(thj_pg.loc[: , "Season"], thj_pg.loc[: , "TOV"],'b') #trainin
lp + plt.plot(thj_pg.loc[: , "Season"], thj_pg.loc[: , "TOV"], 'ro') #valid

for i in range(len(tov)):
    axes_arr.annotate(str(tov[i]), xy = (sn[i],tov[i]), xytext= (sn[i],tov[

plt.show()
```
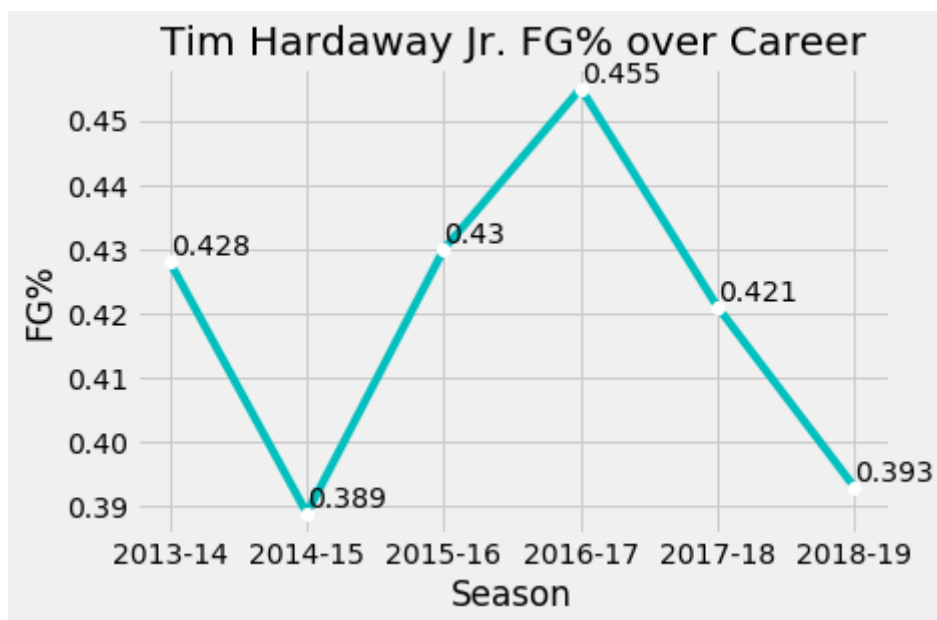
```
In [20]: # FG%
         fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

         plt.xlabel('Season');
         plt.ylabel('FG%');
         plt.title("Tim Hardaway Jr. FG% over Career")
         sn = thj_pg.loc[: , "Season"]
         fg = thj_pg.loc[: , "FG%"]

         lp = plt.plot(thj_pg.loc[: , "Season"], thj_pg.loc[: , "FG%"],'c') #trainin
         lp + plt.plot(thj_pg.loc[: , "Season"], thj_pg.loc[: , "FG%"], 'wo') #valid

         for i in range(len(fg)):
             axes_arr.annotate(str(round(fg[i],3)), xy = (sn[i],fg[i]), xytext= (sn[

         plt.show()
```
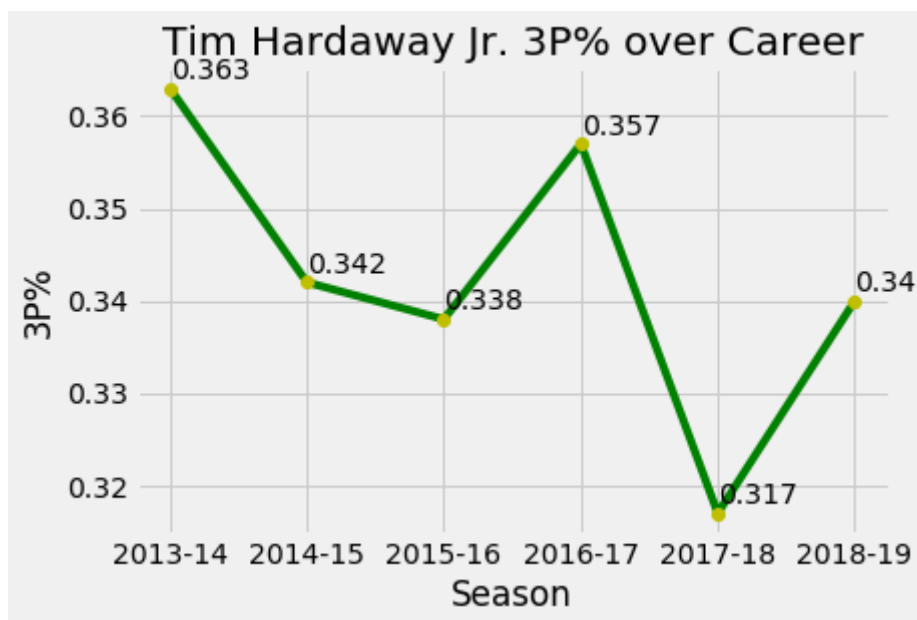
In [21]:
```python
# 3-FG%
fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

plt.xlabel('Season');
plt.ylabel('3P%');
plt.title("Tim Hardaway Jr. 3P% over Career")
sn = thj_pg.loc[: , "Season"]
fg = thj_pg.loc[: , "3P%"]

lp = plt.plot(thj_pg.loc[: , "Season"], thj_pg.loc[: , "3P%"],'g') #trainin
lp + plt.plot(thj_pg.loc[: , "Season"], thj_pg.loc[: , "3P%"], 'yo') #valid

for i in range(len(fg)):
    axes_arr.annotate(str(round(fg[i],3)), xy = (sn[i],fg[i]), xytext= (sn[

plt.show()
```

In [23]:
```python
# STL
fig_h, axes_arr = plt.subplots(nrows=1, ncols=1, sharex=True)

plt.xlabel('Season');
plt.ylabel('STL');
plt.title("Tim Hardaway Jr. Steals Per Game over Career")
sn = thj_pg.loc[: , "Season"]
fg = thj_pg.loc[: , "STL"]

lp = plt.plot(thj_pg.loc[: , "Season"], thj_pg.loc[: , "STL"],'y') #trainin
lp + plt.plot(thj_pg.loc[: , "Season"], thj_pg.loc[: , "STL"], 'mo') #valid

for i in range(len(fg)):
    axes_arr.annotate(str(round(fg[i],3)), xy = (sn[i],fg[i]), xytext= (sn[

plt.show()
```