Links for Resources

**Data Online Links**

<http://harvardsportsanalysis.org/links-2/>

<https://public.tableau.com/en-us/s/blog/2014/03/where-find-sports-data>

<https://github.com/fivethirtyeight/data>

<https://www.basketball-reference.com/>

<https://www.baseball-reference.com/>

**R**

Download RStudio: <https://www.rstudio.com/products/rstudio/download/>

Learn R:

<https://ase.tufts.edu/bugs/guide/assets/R%20Cookbook.pdf>

DataCamp: Worth the yearly purchase if you're committed! <https://www.datacamp.com/>

R for data science: <http://r4ds.had.co.nz/index.html>

Selector Gadget: <https://chrome.google.com/webstore/detail/selectorgadget/mhjhnkcfbdhnjickkkdbjoemdmbfginb?hl=en>

**Python**

Download Canopy IDE: <https://store.enthought.com/downloads/>

Install Jupyter: <http://jupyter.readthedocs.io/en/latest/install.html>

Learn Python:

<http://www2.compute.dtu.dk/pubdb/views/edoc_download.php/6814/pdf/imm6814.pdf>

DataCamp or other online services are useful for learning the language!

<https://learnpythonthehardway.org/book/>

**SQL**

<http://sqlzoo.net/wiki/SQL_Tutorial>

**General**

\*Learn domain knowledge about the sport you are interested in\*

<https://medium.com/the-basketball-dictionary/drop-part-i-42add19791f1>

<https://cleaningtheglass.com/>

**Look for Jobs Anywhere**

Look at team directory, get a name, find an email

<http://www.nba.com/sixers/front-office-directory>

Teamworkonline or anywhere else

<https://www.teamworkonline.com/>

**Second Spectrum Stats and Info**

<https://www.ted.com/talks/rajiv_maheswaran_the_math_behind_basketball_s_wildest_moves>

(Ted Talk)

<http://pr.nba.com/nba-announces-multiyear-partnership-sportradar-second-spectrum/>

NBA contract

<http://www.espn.com/nba/playoffs/2016/story/_/id/15530589/what-advanced-tracking-data-reveals-nba-shooters>

\*If interested in Second Spectrum\*

<https://www.secondspectrum.com/careers.html>

**Data Journalism**

Here are some helpful tips for getting started on some data journalism articles:

1. What data do I have?

- Basketball-reference.com, baseball-reference.com, etc.

- http://harvardsportsanalysis.org/links-2/

- https://opendata.stackexchange.com/questions/9818/open-sports-data

- https://public.tableau.com/en-us/s/blog/2014/03/where-find-sports-data

- Personally contact companies for access

2. Idea time!

- Topical idea?

- Reflection on past event?

- A product a coach could use for the athletes?

- Trying to predict something before it happens?

- Keep an idea book with you, and try to come up with 2 ideas a day!

3. Partners

- Is this task too big for you to handle? Need a skilled programmer? A writer? Ask around in the meetings or on the data journalism channel

- Create a group via text, slack, messenger and discuss your project idea and the steps needed to complete in time.

- Assign tasks for each person to complete, and set up weekly meetings to discuss progress and review peer’s work

4. Schedule your work appropriately!

- Set aside 2-4 hours a week to work and explore through a project!

- Sticking to the schedule will pay off in the long run

5. Submit

Things to keep in mind:

- Email or share a google/word doc to bruinsportsanalyticsclub@gmail.com

- Make sure that the cover photo is large!

- For youtube videos, make sure to specify the embed link!

- Work together with blog chair to complete a finished project

- Share and publish on Facebook/Twitter. If you have a lot of articles, consider creating your own website for job purposes!

Awesome articles to use as benchmark:

- http://www.bruinsportsanalytics.com/wawrinka (In-depth pieces)

- http://www.bruinsportsanalytics.com/wsoccer18 (traditional DJ articles)

Blurb: \*First/Third Person\*

Unless you have good reason, we shall try to write our articles in the third person.

\*Sources\*

- State which data source you used at the end of the article. Ex: "Source: basketball-reference.com"

- For created visuals or cover photos, also state the source. Ex: "Allen Berezovsky/Getty Images". Make sure your cover photo is large and of high-quality.

\*Try NOT to report just simple statistics!\*

We can do better than pointing out a pitcher has a low ERA at the moment, see 538 for further exploration on topics. We are an analytics club for a reason.

\*For larger articles\*

Title it: "An In-Depth Analysis of \_\_\_\_\_"

\*Links\*

If you have a side story which you mention which could be worth the reader's time, please embed the link!

**Great 538 Articles**

<https://fivethirtyeight.com/features/the-chris-paul-conundrum/>

<https://fivethirtyeight.com/features/can-an-nhl-player-finally-score-50-goals-in-50-games-again/>

**Research Papers**

<http://www.sloansportsconference.com/wp-content/uploads/2017/02/1505.pdf>

<http://www.sloansportsconference.com/wp-content/uploads/2017/02/1625.pdf>

**Research Team**

Here is what we are looking for the research proposal:

- Describe Project title

- Give a background to the problem you are trying to solve or study

- Why you would like to try to solve or study this problem

- Explain the data sources you have available to help you solve this problem

- Tell me generally which technologies you plan on using and a general timeline to complete the project in time.

- Explain the role each team member will play