



# Data Science Bootcamp

Teaching you the technical skills you need to stand out  
and make a difference

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**Who are we?**



## Orren



**Senior**

**CS-Math**

**Favorite Class:** Math of Cancer

**Projects:** Animal Simulation Platform

**Internship:** Working at a computational neuroscience lab

**Fun Fact:** I like boxing, martial arts, and jiu jitsu

## Harpal



**Senior**

**Stats-Math/Econ/CS**

**Favorite Class:** Brain Insp Computing

**Projects:** LSTM for Predicting Oil Prices, DBSCAN on geo-spatial data

**Internships:** Schneider-Electric, EGV

**Fun Fact:** I won my 4th grade geography bee



# Yoni



**Senior**

**CS-CogSci**

**Favorite Class:** NLP

**Favorite Project:** Interactive Haunted House for RUPA

**Internships:** eightfold.ai, Center for Theoretical Neuroscience

**Fun Fact:** Plays drums in a band!

# Ben



**Senior**

**Math-Statistics**

**Favorite Class:** Theory of Probability

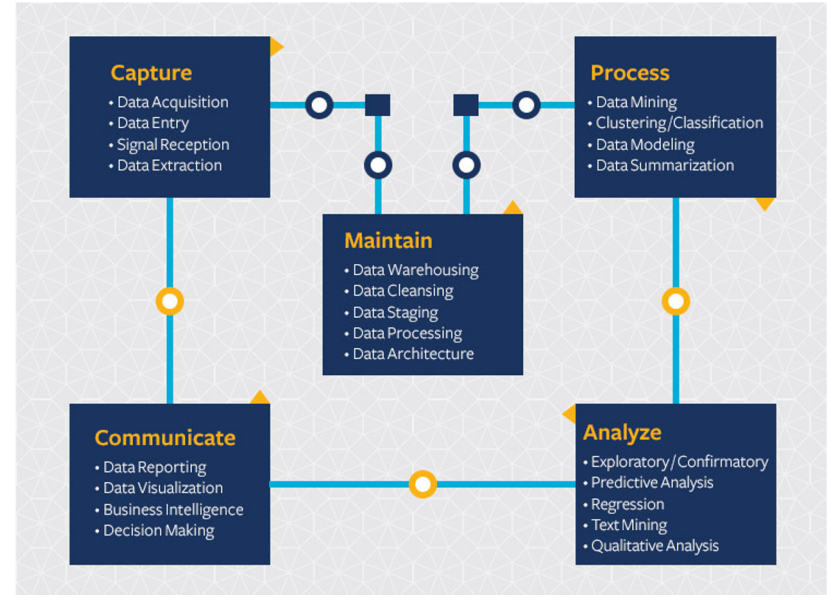
**Projects:** Google Play, Wine Preferences, Orthopedic Sales, Graduate Admissions, Low-Income New Jersey Housing

**Internships:** Lee Spring, Fintegrity

**Fun Fact:** I love playing card games!

# What is Data Science?

- Glassdoor rates it as one of the best jobs on the market
- Finding meaning in data
  - Asking the right questions
  - Telling a story through visualizations
- Mix of statistics, computer science, business insight, and more



Source: <https://datascience.berkeley.edu/about/what-is-data-science/>

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**What do we have to offer?**

# Bootcamping



What will you be learning?

- Basic Programming Refresher
- Working with Data
- Classic statistical algorithms
- Machine Learning
- Visualization and Presentation
- The basic skills and curiosity to continue improving on your own!

## What you'll be learning

February 11th	Installing Anaconda & Jupyter
February 18th	Data Visualization
February 25th	OLS Regression
March 3rd	Multiple Linear Regression
March 10th	Logistic Regression
March 24th	Intro to Neural Networks
March 31st	Convolutional Neural Networks
April 7th	Clustering: <u>kmeans</u> and DBSCAN
April 14th	Natural Language Processing

## What you'll get to put on your resume

- Python
- Anaconda
- Jupyter
- Streamlit
- Pandas
- NumPy
- Statsmodels
- Scikit-Learn
- Matplotlib
- Pytorch





# Software



Everything is free and open source, but now we'll download the tools we'll need to do data science:

→ **Anaconda**

- ◆ <https://www.anaconda.com/distribution/>

- ◆ **Jupyter Notebooks**

→ **A text editor**

- ◆ **Visual Studio Code**
- ◆ **Atom, Sublime, etc...**

→ **pip install streamlit**

- ◆ **Cutting edge data visualization tool we'll be working with**

# Interested in helping us turn this bootcamp into a community?



Join our Groupme!

Email: [rutgersdsbootcamp@gmail.com](mailto:rutgersdsbootcamp@gmail.com)  
[info@rucogsciclub.com](mailto:info@rucogsciclub.com)  
[statisticsrutgers@gmail.com](mailto:statisticsrutgers@gmail.com)

Github:  
[www.github.com/rucogsciclub/Data\\_Science\\_Bootcamp](https://www.github.com/rucogsciclub/Data_Science_Bootcamp)

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# Crash Course in Python



## → Why Python?

- ◆ We're here for data science, so let's check out what [Stackoverflow Trends](#) has to say:
  - Easy to read / learn
  - Open Source → people are always building cool tools and sharing them for free
  - Relevant beyond just data science

## → Outside resources you can use to learn:

- ◆ <https://www.python.org/about/gettingstarted/>
- ◆ <https://www.learnpython.org/>
- ◆ <https://www.codecademy.com/learn/learn-python>
- ◆ <https://www.kaggle.com/learn/python>

## → Let's write some code, and learn how Jupyter notebooks work

# What people are saying about Data Science Bootcamp

With this app, I'm  
confident to plan  
a trip to rural  
Vietnam

Wendy Moss, CA

Feels like magic

Ronny Rider, NYC

Did not help me  
cure my bad foot  
fungus, but the  
teachers are cute

Abby Manning, NYC