

# **R &| Data Science**



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Somewhere in Swinburne

# How I Got An (Academic) Data Science Job

I knew a guy

## Coding in R

Because All the Job Adverts  
Mention It

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# 100%

Percent of Us Who Will Be Looking for a Job

Astronomer

Quant

Data Scientist

CEO of Household

General of Tiny People

Emperor of 'I Just Need Some Time'

Marketing Executive

'Stop Bad Hombres from Getting into This Data Set' People

Start Up Maven

'I Actually Have A Creative Side Too' Website Designer

'I Want to Cure Cancer' BioInformatrix

Siren Telling the Government How To Spend Money on Science (me)

# 100%

Percent of Us Who Will Get a Job

**For Thesis**

**For Fun**

**C**

**C++**

**Python**

**SQL**

**Cluster Computing**

**FORTRAN**

**Supermongo**

**R**

**BASH**

**HTML**

**CSS**

**javascript**

**d3.js**

**Machine  
Learning**

**Hadoop Spark**

**Cloud Computing**

**Non-Astro  
Data**

**Excel**

## **Build My Own Website**

**HTML**  
**CSS**  
**javascript**  
**d3.js**

## **Workshop**

**Hadoop**  
**Spark**

## **Kaggle Tutorial**

**Machine**  
**Learning**

## **Data Science Fellowship**

**Non-Astro**  
**Data**  
**Cloud Computing**

# Aside On Non-Astro Data

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Second Question You Will Be Asked in a Job Interview:



# Why Do You Want *this* Job?

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Not **A** Job, Not **Any** Job,  
Not ***Dear God Please I'll Take Any Job at this Point*** Job

# **Top Tip: Apply for Jobs You Want**



‘Data Science’ Is Nebulous.

It helps to know what you want you want to do with your skills.

# Working with Data Outside of Astronomy Can Help.

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And look rreeeeeeeeaaaaaaaalllllllllyyyyyyyyyyyyyyyyyyy  
good on a resume and in the interview.

# Kaggle is One Solution

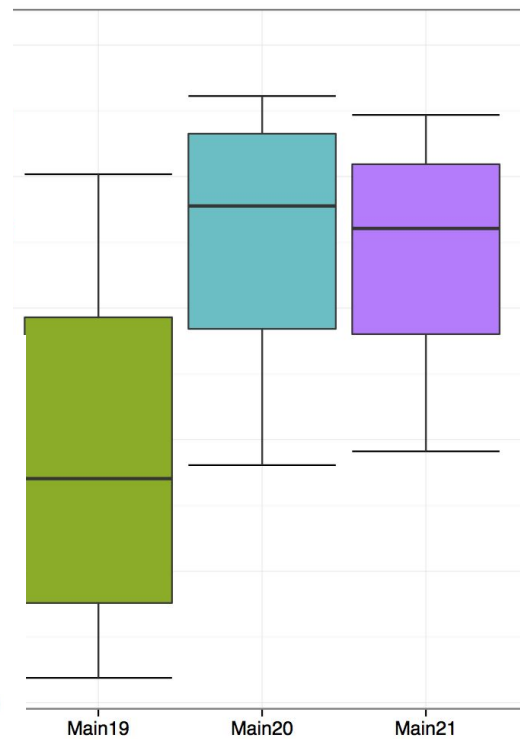
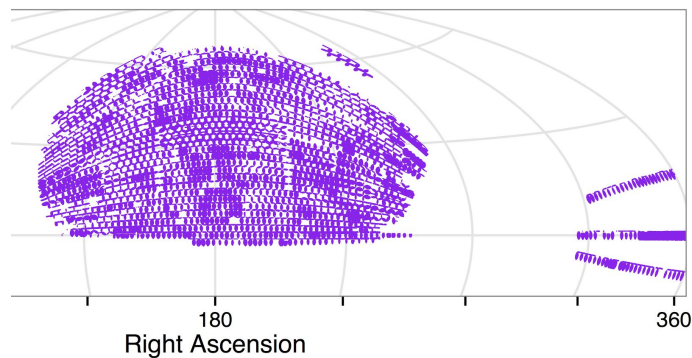
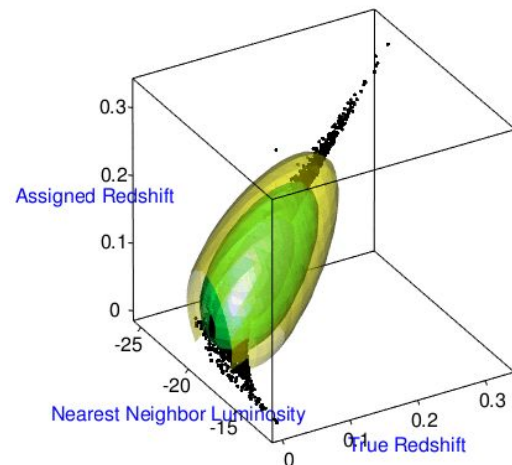
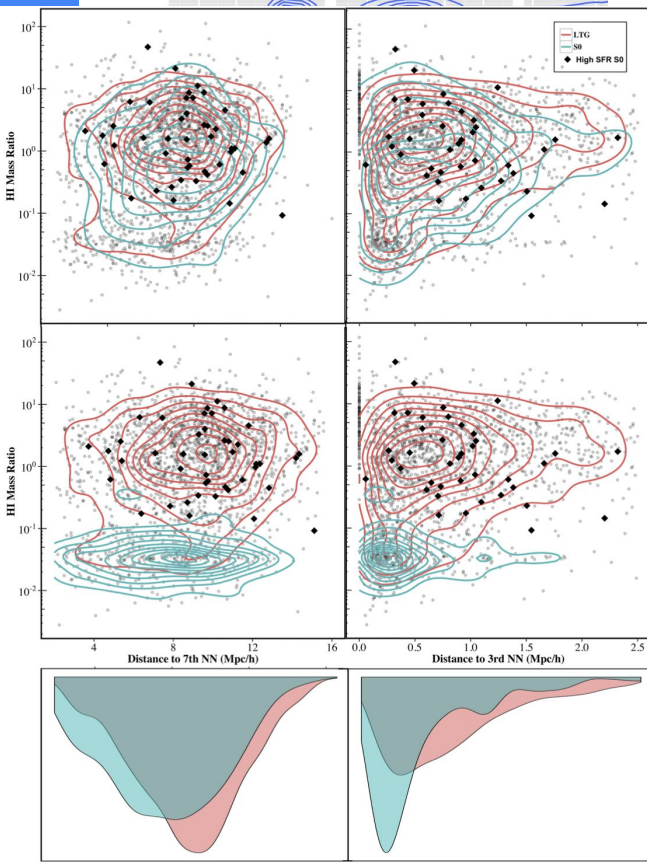
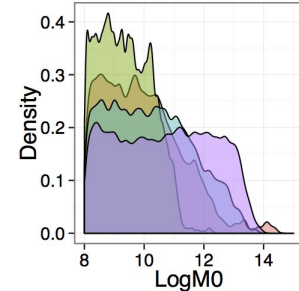
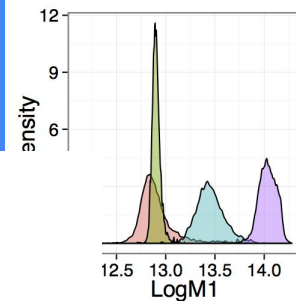
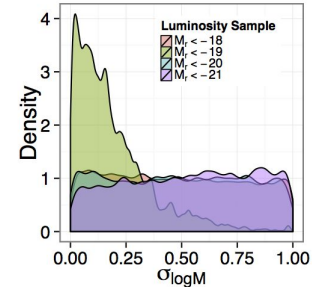
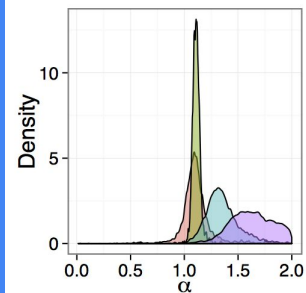
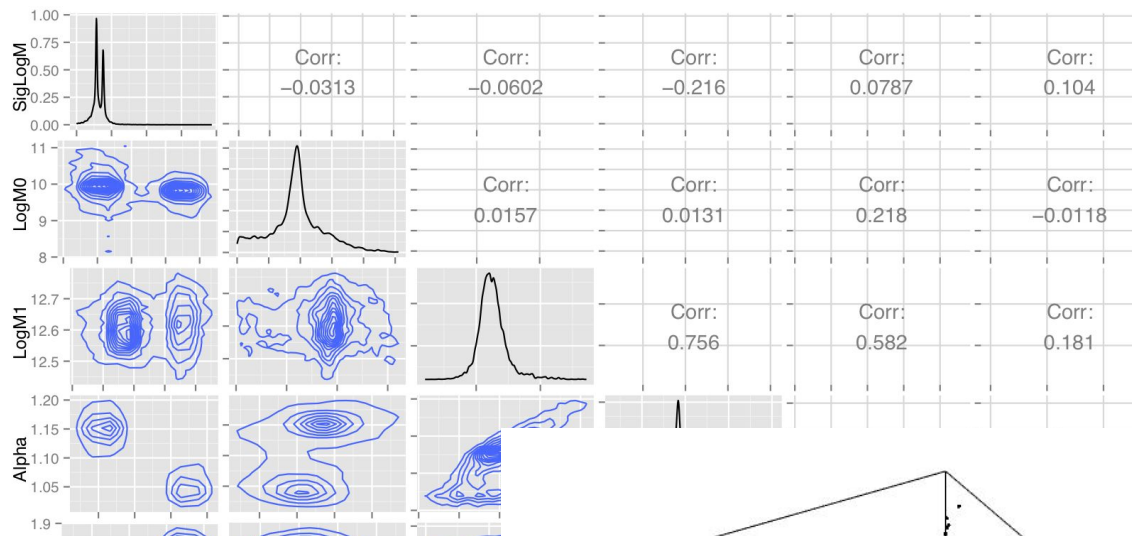
***“The best place to discover and seamlessly analyze open data”***

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1. Go to <https://www.kaggle.com/>
2. Sign Up
3. Play
4. Try <https://www.kaggle.com/c/titanic#tutorials>
5. Add Data Camp Completion Certificate to LinkedIn Profile\*

*\*You Have A LinkedIn Profile right?*

**Time To R**





1. <https://cran.r-project.org/mirrors.html>

\*you can use macports too, but I just spend 1.5hrs updating all my R paths because macports doesn't install R in the right place which makes it hard to iPython Notebooks so consider yourself warned

# **A Few Ways To R**

1. Run the GUI
2. Run on the Command Line
  - a. Type 'R'
3. Run in iPython Notebooks
  - a. <https://github.com/IRkernel/IRkernel>



**R Script:**

**<http://jpiscionere.github.io/CodeReview.r>**

**Data:**

**<http://jpiscionere.github.io/HOPCAT2005TabSep.csv>**