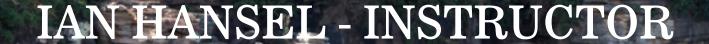
# DATA SCIENCE 11 WEEK PART TIME COURSE

Week 1 - Course Overview & Getting Started

- 1. Meet The Instructors
- 2. Meet Your Classmates
- 3. Instructor Philosophy
- 4. Content Philosophy
- 5. How To Succeed
- 6. Typical Class
- 7. Logistics
- 8. Course Project
- 9. Setting Up



Data scientist at Caltex, previously working in the areas of fraud detection, insurance and web analytics. Provided analytics services for businesses ranging from startups to ASX100 listed companies



### ALASDAIR DOUGLAS - TA

Data scientist at Servian, providing analytics services for blue chip companies such as Commonwealth Bank of Australia. Forward thinking, entrepreneurial and engaged with the data science community in Sydney.





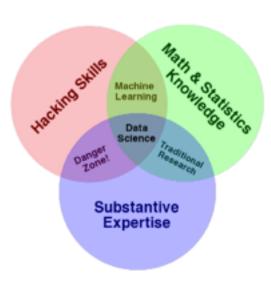
- Embrace Diversity
- Seek an Optimal Pace
- Communicate Early and Often
- Success is not a grade, it's an application

- Application-based Approach
- Understand Key Principles
- Balance Depth and Breadth
- Course Project



- Multidisciplinary Investigations
- Models and Methods for Data
- Computing with Data
- Pedagogy
- Tool Evaluation
- Theory

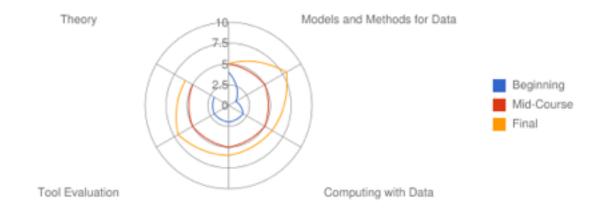
Data Science: An Action Plan for Expanding the Technical Areas of the Field of Statistics William S. Cleveland



Drew Conway's Data Science Venn Diagram

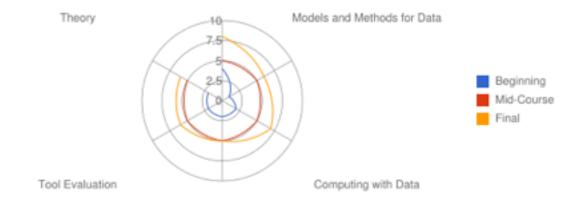
#### Course Progression

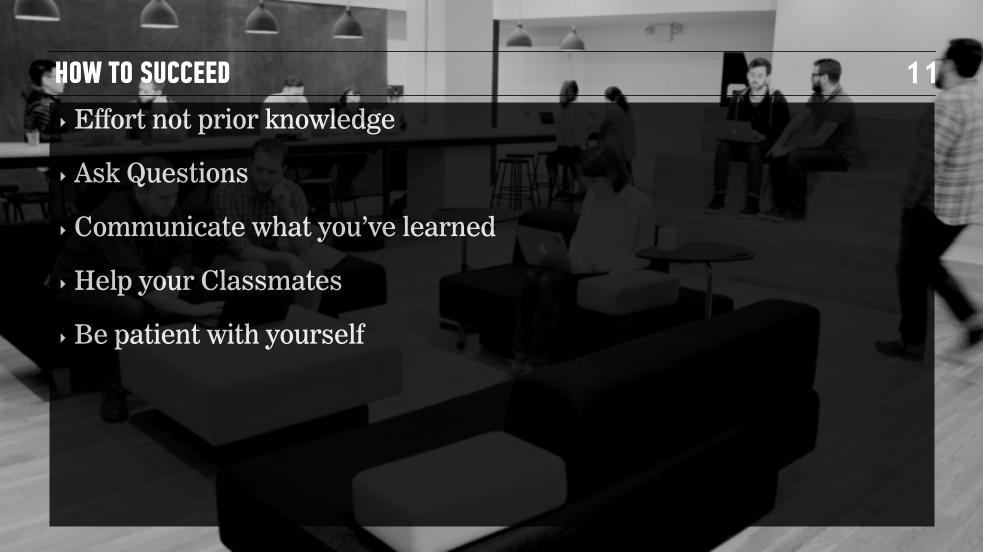
Multidisciplinary Investigations



#### Course Progression

Multidisciplinary Investigations





- Guest Speaker (sometimes)
- Overview of lesson objectives
- Motivating Problem
- Theory
- Lab
  - Code Walk Through
  - Code Exercises
- Class Discussion
  - Homework
  - Readings

LOGISTICS 13

- Bathrooms
- Dress Code
- Start and end on time
- Missing Class
- Slack Instead of Email
- Office Hours
- Github for course content and homework









The final project should represent significant original work applying data science techniques to an interesting problem. Final projects are individual attainments, but you should be talking frequently with your instructors and classmates about them.

Address a data-related problem in your professional field or a field you're interested in. Pick a subject that you're passionate about; if you're strongly interested in the subject matter it'll be more fun for you and you'll produce a better project!

Look at past projects on the github account for some ideas.

## DISCUSSION TIME

### **Prework**

- ▶ Software Installations
  - → Anaconda Python 2.7
  - Git Client (and github account)
  - Slack (and account setup WITH PHOTO!)

## DISCUSSION TIME

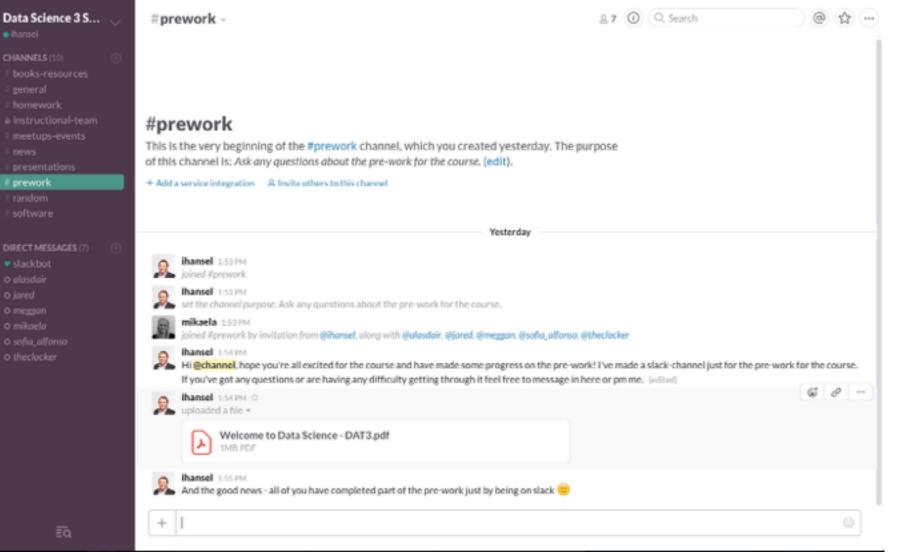
#### **Prework**

- ▶ Readings
  - ▶ Metacademy Learning Plan
  - Data Science Handbook
  - → An Introduction to Statistical Learning

## DISCUSSION TIME

#### **Prework**

- Optional Readings
  - ▶ Codecademy Python course
  - > Python for Data Analysis
  - ▶ Learn Python the Hard Way
  - Command Line Crash Course
  - ▶ Khan Academy Probability



F prework

### Contact

Name: Ian Hansel

Email: <a href="mailto:ian.hansel@gmail.com">ian.hansel@gmail.com</a>

Twitter: @ihansel

Please get in contact if you have any questions about the material covered