### Eric Pitman Summer Workshop in Computational Science

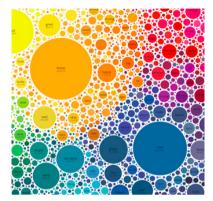


...an introduction to R, statistics, programming, and getting to know datasets



## Our Plan for the Workshop

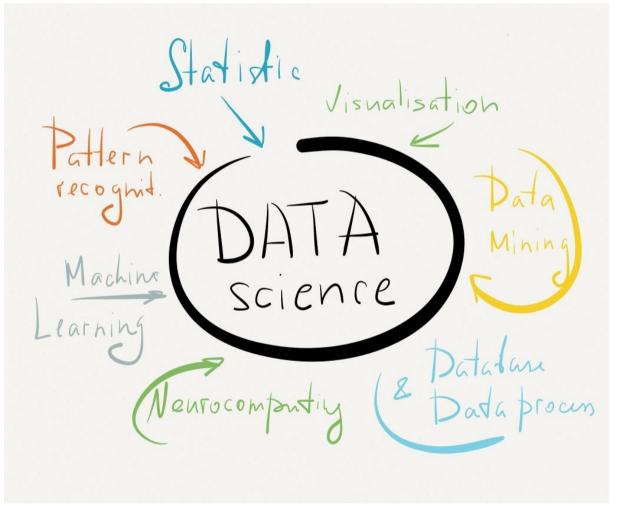
- Introduce the R language
- Do some programming



- Tours, demos, guest lectures: sample some science & engineering
- Examine, model, and visualize datasets
- Read about, discuss data science
- Project: explore materials science design questions

# Our (Informal) Plan for the Workshop

- No grades
- Collaborate
- Respect
- Learn something!
- Life is open internet (so is the workshop)



### Data is Everywhere

- For example:
  - Science/engineering/medicine
  - Environmental science/Social science/Law enforcement
  - Finance and marketing
  - Social media
- How do we come to an understanding of what a dataset contains?
- Can we draw conclusions from a dataset?
- Let's taste the complexities for ourselves

### "Big Data" means Three Things

Volume: lots of data Velocity: coming at you fast—Twitter, 7+TB/day Variety: text, pictures, video, etc.

www.internetlivestats.com

