

# {CS, STAT} 387

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- I say hi / you say hi
- Syllabus
- Course structure etc.
- Data science

# Syllabus / course structure

- The course webpage: <https://davidrushingdewhurst.com/teaching/cs387/>
- Syllabus is there -- please read it and make everyone happier
- Homework
  - Fairly open ended, not too much “plug and chug”
  - Research questions -- answer them in the best way you can (given the knowledge we’ve learned so far + anything you know from outside of class)
  - Aim for publication-quality results
- Reading
  - We will talk about it -- assigned as we go
- Project
  - Goal state: publication-quality manuscript on arXiv.org by EOS
  - We will talk much more about this throughout semester
  - List of potential topics TBA on course page, NOT A LIMITING FACTOR

# Data science

- ??? [the [wikipedia page](#) is seriously lacking, IMO]
  - Data: “units of information”
    - “Information by interpretation”?
  - Science: “organization of knowledge in the form of testable hypotheses and predictions”
    - Dispatches to “knowledge” which we can get back to later
- Data science
  - Is it “organization of knowledge about units of information in the form of testable hypotheses and predictions”?
  - Is there more than this?
- Can you have data science without data in-hand?

**Short piece:** Pitch data science as a useful field of inquiry. How does data science differ from computer science, statistics, mathematics, economics..., and, crucially, from the *intersection* of any of these fields?

Also related: Why should I want to spend money on a data scientist?