

# Data Mining & Discovery

## INFO 523

Policies, etc.

# My info

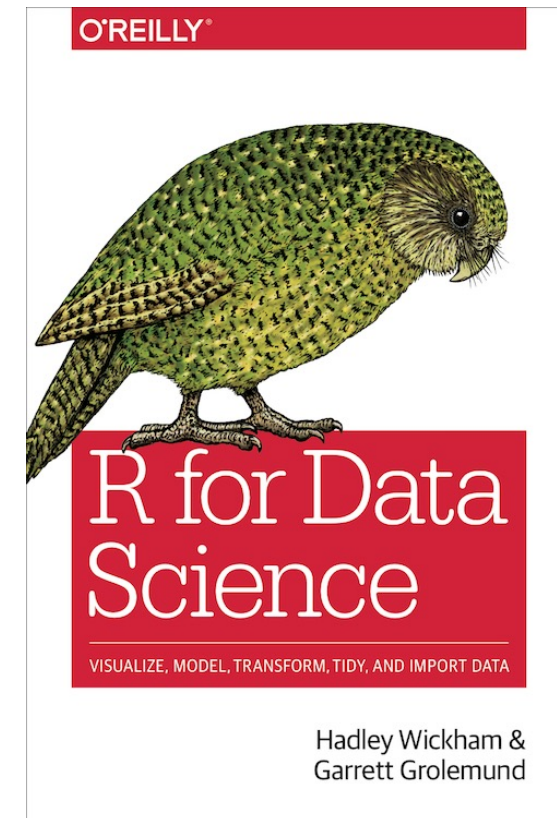
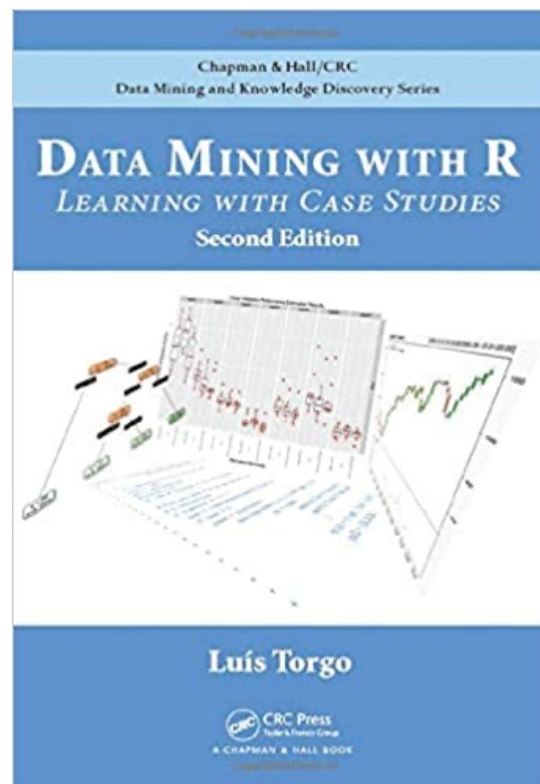
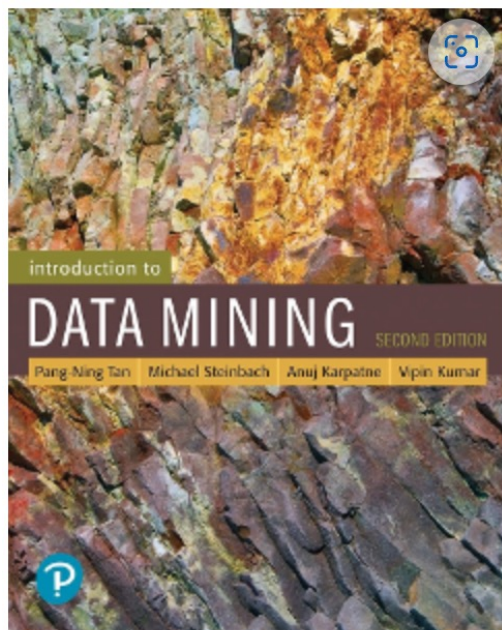
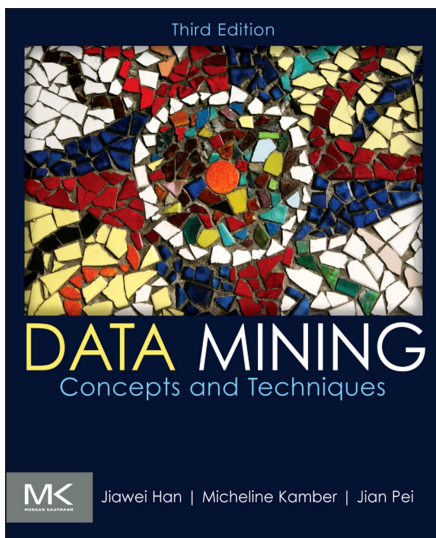
- Dr. Greg Chism, Harvill 420D.
- Office hours – M: 2-3pm
- Email me at least one day in advance for additional office hours ([gchism@arizona.edu](mailto:gchism@arizona.edu)).

# Course website & slack

- Website: [datamineaz.org](https://datamineaz.org)
- Slack: [datamineaz.slack.com](https://datamineaz.slack.com)

# Books

Unfortunately, there's not a single **free** book that includes all the relevant topics at once. I have selected several of them that are excellent at certain aspects. Books are posted in D2L (under **Start Here**) and I will be linking the relevant chapters to each week.



For conceptual discussions...

On the applied side of DM...

# Technology requirements

- R and R Studio
  - Install R 3.4 or above
  - Install a recent version of R Studio
- Interested in using python? Please reach out!
- A working laptop or desktop computer
- A GitHub account (We will be using GitHub classroom from Week2)

# Group work (optional)

- Please read carefully the group work policy in the syllabus
  - Teamwork means “no free riders”.
  - Teammates are expected to help each other.
- Find teammates using Slack
  - **Please introduce you to the class by posting the following info to the Slack forum “Self-Introduction”**
    - Name, home department, background in statistics, data mining, R, the day in a week you plan to work on this course, your work style, and your goals. Any information that help students find the teammate is welcome.

**Do NOT submit the same assignment as your classmate...work on your own document. Academic misconduct = 0 in that homework.**

# Class schedule

- Weekly lecture (~2.5h): Basic R, git, R packages, plotting in R, basic stats, supervised/unsupervised techniques...
- Weekly homework and assigned readings
- Presentations (last week)
- You'll be improving over some data mining code (HW/6 or 7).

# Workload

- If you find yourself overwhelmed with the amount of work, please reach out as soon as you can!! I can adjust the number of questions in your HWs, extend deadlines, provide additional accommodations, etc.
- *From my end, I will respond your emails within a day, hold office hours each week (1hr), and give feedback within a week from the deadline.*
  - *Note however that I will not be emailing on weekends, nor will I expect you too either.*



# Course organization

- Course website
  - Suggested readings
  - Lectures
  - **Homeworks (6-7)**
  - **Final project. See course schedule.**
- Schedule may shift depending on our progress
- Student-instructor communication
  - Use the office hours
  - Slack (Course questions, basically all communication)
  - [gchism@arizona.edu](mailto:gchism@arizona.edu) (for absences and personal info)

# Homework submissions

- After HW1, detailed instructions will be in the header of the HW AND GitHub repo.
- All HW submissions must be in RMD or **QMD**.
- I won't grade .R, .txt, etc. files.
- You can save data and variables in an R workspace (and include the workspace in your submission)
- Should be able to reproduce (render) everything from your RMD or QMD file and the files you provide.
- **I won't grade your assignment if I cannot knit it. Please make sure your RMD or QMD knit properly before submitting (You'll probably have access to results through github actions).**

# How is this course actually structured?

- Each week, students are expected to approach the materials in the following order.
  - 1. Go over the suggested readings
  - 2. Review the lectures and slides
  - 3. Ask questions (e.g., email the instructor, sign up for office hours, post in Slack)
  - 4. Work on the HW (also #3)

# Grading

- Homework/Exercises (70%): 6 R Exercises; 6–7 HWs
- Final project (30%)

# Homework this week

1. Read the syllabus carefully and go over the course schedule on the course website.
2. Install R, RStudio (or use **posit cloud**), and git.
3. Create a GitHub account.
4. Introduce yourself on Slack.

**5. Go over HW1 (a “Quiz” linked in D2L and the course website about what data mining is...do your readings before)**

\*If you disagree with any of the answers in the Quiz – please email me or schedule office hours! I’m open to discussion!!