



# STARFISH SCHOOL

A Virtual Bootcamp for Astronomy Graduate Students

## WEEK 1 EXERCISES

Version 3.0 (2022-09-09)

## This Week's Exercises

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- Write down one SMART goal for the coming semester (e.g., submit my AST 1501 proposal by September 25)
- Identify a few specific projects that you can tackle linked to the SMART goals (Write the literature review/introduction, write the methods section, write the proposed results section)
- Identify all the tasks related to those projects (bullet points the literature review, read papers X,Y,Z, write section on analysis of X,Y,Z, make some schematic plots etc.)
- Make a Trello board for your life
- Set up an overleaf document with AAS, MNRAS, etc. template
- Create an ADS library and cite it within your LaTeX document

## Overleaf/Latex

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In this exercise, you'll be creating a basic latex document, and adding a few citations.

1. Create a LaTeX document on Overleaf with the AASTex Style
2. Find your favourite PNG graphic/picture and add it to the document, with a caption as to why this is your favourite.
3. Typeset your favourite equation using LaTeX. Tell us why it's your favourite equation.

### Stretch Goals:

4. Have a play changing settings (e.g. one column, two column etc.) and bibliography style
5. Head over to <https://www.overleaf.com/3591538747zbwxpqjsryfm> and leave a few comments using the 'Review' tools

## Project Management/Trello

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In this exercise you'll start your grad projects off right with some project management tools.

1. Make an account at trello.com and start a project board. If you want an intro into how to get around, check out this demo: <https://www.youtube.com/watch?v=xky48zyL9iA>
2. Think of how you might want to go about organising your 'cards' and spaces
3. Practice using labels – talk to some of your fellow Starfishes about what scheme you'll use: colour for projects, color for research/TA-ing/courses?

### Stretch Goals:

- Add a to-do list to one of your cards
- Add some deadlines to your cards

## Researching and Citing the Literature

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In this exercise, you are going to start working with ADS

1. Sign up for an ADS account (If you haven't already)
2. In your ADS account, create a library on a topic that interests you (e.g. black holes, gravitational waves, etc)
3. Find at least five papers on that topic (maybe choose highly cited ones? Recent ones?) and add them to the appropriate library in your account
4. Pick a paper from your library, get the bibtex code, put into the .bib file on your overleaf document, and make a citation to the paper in the .tex file. Make sure the overleaf compiles properly 😊
5. Export entire library to bibtex file and add it to your Overleaf document .bib file
6. Find a friend from Starfish School, and add them as a collaborator to your library under "Manage Access"

## Stretch Goals:

- Create another library on your ADS account for a different topic, and add 5 papers. In the library you just created, use the “Citation Helper” to find other relevant papers and add them to your library too!
- Check out other features for libraries under the “explore” option
- Set up Google Scholar so you can see the “Get it @ UofT” link
- Set up an ADS weekly reminder for papers that are relevant to you