

This problem set will have you apply some of the productivity-enhancing software you've been introduced to, and help me learn a bit more about your research interests. In completing this assignment you will be writing TeX code, using [overleaf.com](https://overleaf.com) to edit the TeX code, using Git, and publishing your work to GitHub. You will submit your problem set by pushing the document to *your* fork of the class repository. You will put this and all other problem sets in the path `/DScourseS26/ProblemSets/PS{X}` where `{X}` denotes the problem set number. Name the file `PS1_LastName.pdf`.

1. Create an account at [GitHub.com](https://github.com) and “star” our class repository ([github.com/tyleransom/DScourseS26](https://github.com/tyleransom/DScourseS26)). Please add a photo of yourself to your profile; this will make it easier for all of us to interact throughout the course.
2. Fork the class repository to your own account. Once you have forked, go to “Settings” and click on “Collaborators” on the left hand bar. Enter my GitHub username (tyleransom) so that I will be able to view your completed assignments.
3. Make sure you download other productivity software that we discussed in class: Git, VS Code, and R/Julia/Python/SQL. For Git, you should Git natively (if a Mac OS user) or download and install the Windows Git binary from [here](#). We will be using RStudio as our primary Integrated Development Environment (IDE) throughout the semester. I also recommend installing VS Code, but that is optional. In general, you are free to use whatever tools you would like for this course. However, we will be using my preferred tools for in-class demonstrations.
4. Create an account at [overleaf.com](https://overleaf.com) and open a new project. I recommend starting with an “Example Project” to see how LaTeX works, but a “Blank Project” is fine too.
5. In the body of your .tex file, write a brief summary ( $\approx$  half a page) of your interests in economics & data science. What made you want to take this class? Do you have any ideas for what you would want to do for your project for this class? What are your goals for this class, and what is your plan for after graduation? *Feel free to use AI tools to help with LaTeX syntax.*
6. At the end of your document, create a new section entitled “Equation” and write the following equation in T<sub>E</sub>Xformat (see [Overleaf's guide to mathematical expressions](#)):

$$a^2 + b^2 = c^2 \tag{1}$$

7. Using GitHub.com in your web browser, create a text file with your initials in the `People/` folder of *the main class repository* (not your fork). The file should contain only

the text 'hello'. To do this: (1) Navigate to the People/ folder in the class repository, (2) Click "Add file" → "Create new file", (3) Name it with your initials (e.g., TR.txt), (4) Type 'hello' in the editor, and (5) At the bottom, select "Create a new branch" and click "Propose new file" to create the pull request.

Note: Steps to submit this problem set:

- (a) In Overleaf, download your .tex and .pdf files (click "Menu" in top-left → "Download" → "Source")
- (b) Rename both files to PS1\_LastName.tex and PS1\_LastName.pdf
- (c) In your web browser, navigate to *your* forked repository on GitHub.com
- (d) Click on the ProblemSets/ folder
- (e) Click on the PS1/ folder
- (f) Click "Add file" → "Upload files"
- (g) Drag and drop (or click to select) both PS1\_LastName.tex and PS1\_LastName.pdf
- (h) Scroll down, add a commit message like "Turning in my PS1", and click "Commit changes"