

Final Projects

Winter Institute in Data Science

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1 Final Projects

The final project is an opportunity to answer a social science question of interest to your group. Your group will collect and analyze data that enable your analysis to answer or inform your question. Data can come from any source, such as a work project, an academic replication repository like <https://dataverse.harvard.edu>, public data such as <https://opendata.dc.gov> or <https://nces.ed.gov/datatools/>.

2 Work Products

Your final project should include

- Social science data
- Application of data science methods of modeling or discovery (statistical inference, linear, generalized linear, generalized additive, Bayesian regression, machine learning, clustering, text methods, network data methods)
- Data analysis that is consistent with data science practices from class.
- Code that embodies modern data science workflow procedures.
- A report that clearly describes your social science question, the intellectual or political context of the question, the data collection procedure, interesting or important features of the data wrangling or processing steps, your statistical methods, and your results. It should have an abstract that summarises these features in a handful of sentences.
- A GitHub repository with your code, data (if applicable), and a report on your question, methods, results, and interpretations. These should be in folders `code`, `data`, and `docs`, respectively. You may include additional elements as needed.
- Optionally, use of cloud or distributed computing

3 Groups

We have randomly assigned you to groups for the project. You may switch groups to work with colleagues, classmates, etc., but someone else needs to switch into the group you are leaving. Please communicate and coordinate with all group members. If you switch groups, please let the instructors know.

Group_Number	One	Two	Three	Four
1	Eddie	Tanesia	LucasG	Erin
2	Kathleen	Sophie	Marc	Carine
3	AndrewZ	Milika	Bryce	Jocelyn
4	JessieG	Lauren	Olan	Hubbert
5	Mark	Kate	Zeinabou	
6	LucasA	Hannah	Kelly	
7	Ethan	Cameron	JessicaK	