

Introduction research and data analysis

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NYU

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NEW YORK UNIVERSITY

Things to keep in mind

- Come to recitation.
- Book my office hours.
 - Identify problems with your question.
 - Identify problems with your research design.
 - Provide guidance on data, statistics, Stata, R and Python.
- Ask me questions via email.
- Make progress during winter break.
- Don't forget the deadlines!
- Don't wait until the last minute!

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We are interested in causal questions

What is the impact of D (your independent variable, the treatment) on Y (the outcome of interest or dependent variable)?

or...

Does D (your independent variable, the treatment) cause Y (the outcome of interest or dependent variable)?

What does this mean?

$$D \longrightarrow Y?$$

Lay out a hypothesis: Define D and Y .

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 - Why is it relevant?
 - Why should we care about it?
 - What are we learning from it?

What does this mean?

$$D \longrightarrow Y?$$

Lay out a hypothesis: Define D and Y .

- Formulate the question.
 - Why is it relevant?
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 - What are we learning from it?
- How are you going to test your hypothesis:
 - What data would you use?
 - What tool will you use to test this hypothesis?
 - How are you going to convince people of your findings?

Developing a Research Question

Choose a topic, define an issue, ask a question, state a hypothesis:

- **Topics are general:**
 - Civil conflict.
 - Democracy/autocracy.
- Issues are the small components:
 - Climate shocks and unrest in Sub-Saharan Africa.
 - Aid and autocrat survival in developing countries.
- Questions are narrower elements of an issue:
 - Do climate shocks cause conflict?
 - Why does aid help autocrats?
- Propose an educated explanation:
 - Farmers' incomes fall, reducing the cost of rebellion.
 - Fiscal windfalls increase the incentives/means to stay in power.

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- Causal question: Do countries that depend more on tariff revenues democratize?
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- Why is the phenomenon taking place?
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 - Citizens cannot hold autocrats accountable.
 - Cost of being punished is low \Rightarrow extract rents from state and repression.
- When institutions are weak it is hard to hold leader accountable.

Choosing a good research question

- ① Identify a question that's interesting.
 - Ask a causal question.
 - Elevator pitch. You want to communicate an idea/lesson to the reader.
- ② Identify a question that you are passionate about.
- ③ Read the existing literature.
 - We are standing in the shoulders of giants.
 - No need to overdo it - but important to cite main contributions.
- ④ Identify your contribution.
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Your are not writing research to win a nobel prize

- ① You are probably not going to solve a world problem.
- ② Think about something doable for the time frame you have.
- ③ Even if the contribution is small, that is ok.
- ④ It is better to be a bit narrow than too broad.
- ⑤ It is better to answer a smaller question, and do it well.
- ⑥ Research need not be perfect, but good enough.
- ⑦ The best papers do their best by contributing to answering a big question, by answering a (much) smaller one.

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Tracking and organizing your references:

- Mendeley desktop: <https://www.mendeley.com/>
- JabRef: <https://www.jabref.org/>
- Google scholar cite button.

Important considerations in practice

Variables you need to think about:

- **Dependent variable (Y): the outcome.**
- Independent variable/treatment (D): the cause of the outcome.
 - It can be binary (received a cash transfer or not).
 - The amount of government transfers.
- Confounders: cause both the treatment and the outcome - sources of bias.
 - Observable? Can it be measured?
 - Unobservable - problematic.

D : Aid \longrightarrow Y : Corruption

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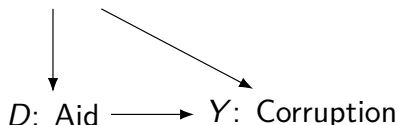
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X : UNGA alignment

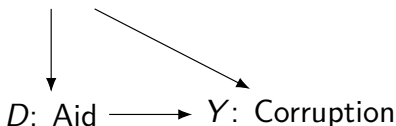


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X: Political connections



Very important considerations

Make sure the project is feasible:

- Identify your unit of observation (countries? individuals? counties?).
- Y and D need to vary accross your units of observation.
- If there is a time dimension, Y and D need to vary over time!
- Does your data exist? Can you get it on time?
 - Absence of data breaks a project.
- Can I learn the tool I need in time?
- Do I have the resources buy a dataset or to conduct am experiment/survey, etc.?

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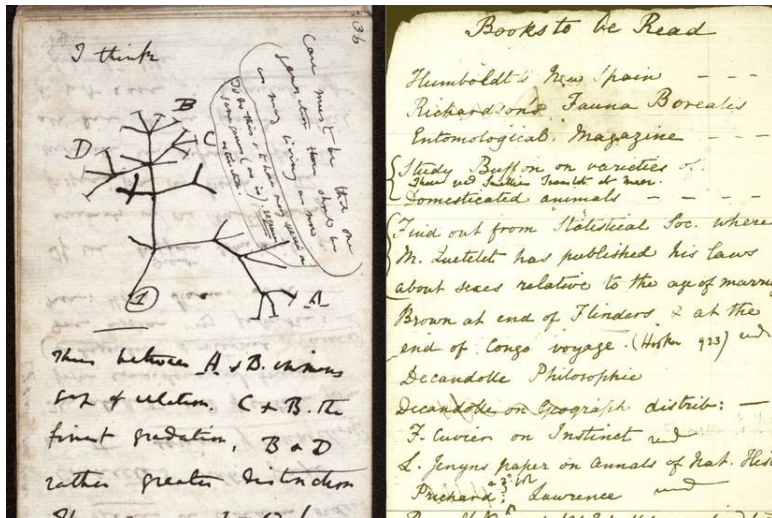
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Before using any data:

- What is the source of this data? Is it likely to be accurate? What kinds of biases might there be?
- Read the manuals and codebooks first and check where and how the data previously was used.

A research notebook will save you headaches



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Comment

- Check for problems in notation. (Done)
- Check stochastic dominance as an assumption. (First order stochastic dominance, yes, no need for second order dominance.)
- Need more clarity on the expectation of why different classes react differently for the τ .
- They don't feel so bad about fiscal burden when they are richer. Yes. (Simulations in python show that rich people's utility decreases much less than that of middle class)
- Check public finance literature on the fiscal burden. Check for a book on public finance . (This is fiscal incidence. In a nutshell it depends on the elasticity of demand and supply of labor. When supply is more elastic then we observe that fiscal burden is bigger on workers wages. Same thing if for example elasticity of demand is smaller for producers.)
- Be sure what is there about on tax burden. (Done, just to mention a few things here.)
- Instead of using RU, put the full expression, to be clear on the first partials.
- Check in which case does the function become downwards slopping. (I indeed find that V is not downward but upward sloping, but this depends on the income.)

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- Layout.
- Open a data set.
- Create a variable.
- Check correlation.

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- Document preparation system, designed for production of scientific and technical docs
- What-You-See-Is-What-You-Get style of document editing (Word etc.) vs. \LaTeX
- \LaTeX separates presentation from content \rightarrow \LaTeX editors save us!

- 1 www.overleaf.com
- 2 Below "Get started" now, click "Register"
- 3 To start a new project from scratch, in the main page click the "New Project" → "Blank Project"
- 4 Enter the name → "Create"
- 5 Edit .tex file now & to view the changes click Recompile

Goal: First paragraph of your paper in LaTeX!
Overleaf website + excel2latex