final project

(if little time just discuss briefly each TOC item)

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outline
litRev:https://theaok.github.io/generic/howToGoogSch.html
opinion/activism v science
how do i produce a final project for this class?
presentations
final paper/project in general [NOT resMet]
a dilemma: publishable project or student project [NOT resMet]
inline response to comments on ps [qm*,dev,swb,dirStu]
links: good research in words of others [NOT resMet]
the end of theory, data is enough, airplane model [datMan, dirStu]
regression [qm2, dirStu]
data management [datMan, dirStu]
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GIS (todo)

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management [datMan, dirStu]

GIS (todo)

outline

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opinion/activism v science

how do i produce a final project for this class? presentations

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the and of theory data is anough simple as most

regression [qm2, dirStu]

data management [datMan, dirStu]

GIS (todo)

intuition

- youthful passion and excitement are great
- but we need to force ourselves to be objective because humans are not
- opinion/op-ed usually surfaces where objective science should appear

opinion/activism v science 5/82

opinion/activism v science: a dichotomy?

- not necessarily a dichotomy
- oand indeed, much of the time ideally both
- although in practice it seems to be either or

Haidit's book 'Righteous Mind'

- being right and superior: righteous: (of a person or conduct) morally right or justifiable; virtuous
- the problem may be that "science" (fake science) is the result of opinion/activism, not the other way round
- odoes activism binds and blinds (like morality)?
- argument building follows passion and intuition, not reason!
 - ·guns, abortion, etc
- ⋄eg, why is it ok to make fun of Melania Trump and not Michelle Obama?
- why is antifa better than proud boys?

a serious problem with academics! we're righteous!

- ♦ think we know better, even things we don't study!!
- ⋄like if you're an expert in one area, you think you are one in all areas!
- how many of you study guns? and yet you sound like experts on the issue
- owhy? because you have some expertise in some other area
- ⋄it's one thing to have an opinion
 - · another thing to absolutely sure you are right
- ⋄and yet doubt is necessary for science and progress
- $\diamond\, do$ you even allow a possibility that you may be wrong?
- ♦ if not, then is it belief or science?

anecdotal evidence, stereotyping

- similar statements, and you think only one is true!
- <
- oan undocumented immigrant killed someone: a significant number of undocumented immigrants are criminals
- a gun was used to commit a crime: a significant number
 of guns are used to commit a crime
- same fallacies!! but you just see one depending on which side you're on
- what about this: residential swimming pools kill more babies than guns (Freakonomics)

easier to be positive than normative

- are guns good or bad? tough to say!
 - ·see a philosopher or a priest
- but if we want to increase public safety, we should increase gun control

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https://www.hsph.harvard.edu/hicrc/firearms-research/gun-threats-and-self-defense-gun-use-2
```

opinion/activism v science

(LUKIANOFF and HAIDT, 2015)

- microaggressions/ political reasoning
- ♦ emotional reasoning
- Common Cognitive Distortions
- ◊I'm offended is a trump card!; if sth is unwelcomed, that's it!
- trigger warnings
- catastrophize/zero tolerance

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data management [datMan, dirStu]

GIS (todo)

start early

- oit's high time now you know what you'll do for the final project
- ♦ if you are not sure, email me
- ♦ if you cannot find data, email me
- ⋄I'd like to meet with each of you at least twice per your project

kill 2 birds with one stone

- analyze something that you study for another class
- ouse data from your work
 - ·no matter where you work-they always have some data

start with good data

- ◇ representative
- onovel/innovative (eg twitter)
- olocal/familiar (so that you can compare to your experience)
- Olong term investment (use same data for years)

treat it seriously, don't waste your time

- onot only a big chunk of the final grade
- ♦ use it or lose it!
- ♦ if you don't use tools, you will lose this skill soon
- $\diamond\,\mbox{be}$ efficient, use this class for something beyond this class
 - · do something useful for your work (civic engagement)
 - it could be analysis chapter for your capstone/thesis/dissertation/journal paper
- ◊important!: email me drafts and see me few times in the second half of this class

the good news

- the good news is that you already have much of it
- ojust reuse your problem sets
- \$\displayses, you can reuse past (future) assignments for final
 project
- or you can, of course, come up with something new
- you can also reuse your work from other classes/projects
 (eg your job)
- ·but in that case you need to clearly state what you are reusing
- state that in the text of the final project, eg at the beginning of it

the bad news

- there is always bad news accompanying good news...
- ⋄if you are building on your past ps
- you need to extend them very substantially
 - ·cannot just glue them all together
- and they need to form a logical project
- oit needs to be interesting/innovative
- and discuss your findings—why they are important?
- ♦ what is new there?

consensus creation or consensus shift

- perhaps your study creates consensus or shifts it
- ⋄great if it does

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presentations 20/8

rules

- onot too much background! cut to the chase asap
- ⋄ max 1 slide per 1min; eg present 10min: 10slides
- \diamond max 15 lines of text per slide (ideally <=12)
- ouse graphs/pictures/maps as much as possible/practicable

presentations 21/82

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GIS (todo

interesting to you— >fun for you

- study something that is of interest to you
- say crime if you live in high-crime area
- or agriculture if you live in high-agriculture area
- eg I study income inequality, because my family is unequal
- ofun to work on something of great interest to you

be curious

- curiosity is arguably the most important reason for research
- odo research about something that you are curious about
- oit will be fun and you will be good at it

- interesting to others

 o(if interesting to you, more likely also interesting to others)
- · (if you hate your work, others won't love it)
- research must be interesting
- ♦ i am very much against typical dry research only demonstrating technical proficiency or mastery of material
- research should read like a story
- its language should be simple · do not write words that you do not use when talking
- be simple and clear:
 - "person", not "individual"

the "so what" question?

- ogo through your final project and ask yourself "so what?"
- oif what you have just read is not relevant, drop it
- this rule, as all rules here, pertain not only to text
- but also to tables, graphs, maps, etc

- ♦ in fact, the opposite is good:
- be as brief as possible: i will decrease grade for padding:

(putting irrelevant/wordy stuff into your paper)

- ♦ sure, do a lot of stats, reading, mapping
- $\cdot\,\text{but}$ give me only the best of it

· (have to do a lot to find the best)

be thorough—a typical paper is twenty something pages doublespaced incl references and everything

final paint hither nature we were with a lot expression only need to cite really a lot expression of the cite really a lot expression of t

- ·again, don't do boilerplate! better shorter than longer
- oneed to beef it up!

make it bulletproof/various robustness checks

- triangulate (different measurement of the same concept)
 - · eg: educ: years, degree, ranking on US News, actual standardized skills (eg PISA scores)
- exclude alternative hypotheses: be devil's advocate, try to throw out your research out of the window
- ⋄use different datasets: time (eg now v 70s, space (US v UK), aggregation: state v county

be smart and ethical

- ♦ do build on your earlier/concurrent work
- ·connect it somehow; don't start something completely new
- have to say if and which parts were written outside of this class,
 - otherwise it is scholastic dishonesty—you can indeed plagiarize yourself!
- - ·ie: not just lit rev, but also build on others code: this is the fastest way
- · and do acknowledge that code taken from others, too

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GIS (todo

- inline response: like a peer-review process oinline response: quote *all* comments and reply to each helow it
- ⋄i will give you comments on your draft(s) (eg each ps)
- reply ·don't forget about verbal comments from me and others

·so each subsequent ps will start with a section where you

- in class (if you present or we discuss your research—so make notes!)
- · and i typically email you if you present—include text from that email, too
- ⋄you need to respond to *all* comments you may disagree, but you have to respond (eg say why

inline response: like a peer-review process

- you need to reply inline, ie quote the comment and then respond to it
- ofor example see my https://sites.google.com/
 site/adamokuliczkozaryn/gis_int/rev_ariq.pdf
- oif no tracked changes be specific where the change was made-page and paragraph
- oif you need clarification on my comments (i tend to be overly parsimonious), email me!

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GIS (todo)

i wish i knew it when i was a student

- oinstead of rephrasing what i have learned by reading other people description of good academic work
- i am just linking their writings
- ofollowing their advice should help you producing a good final project for this class
- we'll quickly scan through them
- ⋄i also list some points in slides
- read them after the class—they are very useful

Greg Mankiw

- "My rules of thumb"
- http://scholar.harvard.edu/files/mankiw/files/my_
 rules_of_thumb.pdf
- have productive mentor(s)
 - ·Scott Long's research shows that a student's productivity depends on mentor's productivity
- have broad interests, be interdisciplinary
- your research should be T-shaped: broad, but also deep in one area

Greg Mankiw

- http://scholar.harvard.edu/files/mankiw/files/my_
 rules_of_thumb.pdf
- time management is key! extremely easy to mismanage time in research:
 - ·ask yourself how what you are doing now gets you to your goal
 - · have strategy
- write well—see other slides; essp: simple, clean

Andrew Gelman

- "Advice on writing research articles"
- ♦http://andrewgelman.com/2009/07/30/advice_on_writi
- be clear about your story
- give your paper to other people to read
- ♦ ask for comments

start with the conclusions and work back to abstract

Gary King [do it at home]

- "Publication Publication" and some notes under:
- ♦ http://gking.harvard.edu/papers
- oif needed, criticize others, but step on their shoulders, not their face
- ⋄[note: this is about replication; still some good ideas]

great references on academic writing

- clarity, simplicity, conciseness
- ♦http://amzn.com/0060891548
- ♦http://amzn.com/1577660633

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regression [qm2, dirStu

data management [datMan, dirStu]

GIS (todo)

wired article

- http://archive.wired.com/science/discoveries/magazine/
 16-07/pb_theory
- ♦ again, we have data revolution
- ounprecedented amounts of data about pretty much anything
- with so much data, we can just look at basic correlations
- without being too serious about theory!
- onote: this is computer science approach to data analysis
- such view is not mainstream in social science

theory

- ♦ there is no reason to be very serious about existing theory
- theories are only valid until proved wrong
- ♦ we need new theories
- remember "all models are false, some are useful"
 - ·our model and theory is *never* right
 - ·world is too complicated
 - ·we just want to show some useful pattern
- ·that's all we can do
- ·still, we want to be as close to the truth as possible

airplane model

- models replicate some of the useful features of real objects
- think of an airplane model
- there are airplanes models without windows
- and models that are too heavy to ever fly
- yet they are useful eg to test airflow in a wind tunnel
- but these models are not the same as airplanes
- ♦(and nobody claims they are "true")
- but social scientists behave as if they have "true" models
- $\diamond\,\mbox{your}$ regression model is always false, but hopefully useful

build new theories and models...

- because all theories and models are wrong, be creative
- ocome up with new theories in models
- odon't take well established theories and models for granted just because they are out there for a long time and everybody uses them

...but do your homework

- cannot produce new theories if don't know the old ones
- \cdot your new theory/model may already be old
- · (reinventing the wheel)
- \cdot rather invent the new given the old-build on other's work
- oyou have to defend your theory/model
- ·why is it important ? "so what ?"
- ·why they got it wrong?
- ♦ again, all models/theories are wrong, some are useful
- ♦ also, some are better than others in terms of /creativeness/logic/argument/robustness

·how come millions of other soc sci did not get?

conclusion: theory and modeling

- ♦ think out of the box
- ♦ be creative
- odo not use models only because everybody else uses them

and remember that no model works all the time

- ⋄eg famous now professor couldn't get into PhD
- because his GPA was low,
- and model predicted that people with low GPA cannot do well in PhD
- omodel works probably well most of the time, but as any model
- ♦ it sometimes fails

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data management [datMan, dirStu]

regression [qm2, dirStu]

regression [qm2, dirStu] 49/8

what next?

onow you know the basic and powerful tool of multiple OLS

♦ and test those hypotheses by regressing the outcome (Y)

- ♦ what next?
- turn your ideas into new theories and hypotheses
- on your main X, controlling for other X's
- ♦ do data support your hunch? find out ...
- be creative! being social scientist you don't have to study economic development or income inequality
- you can study happiness, culture, religion, terrorism, facebook relationships, and so forth

theory, logic, explanation

- again, you need to have some theory that makes sense and that is interesting for public policy/business/philosophers, etc...
 - · and be as clear and simple as possible
 - · eg "Wage is a function of education and experience; it is based more on merit than on privilege, such as race and gender." [see also Alesina's paper in few slides]
- odo not say that you expect that "gender affect wage"
 etc...
 - ·why? how? so what?

regression [qm2, dirStu] 51/82

regressions

- ·again, do not overemphasize Rsq
- ·do *not* pick the models based on the Rsq!
- ·use beta coeff to compare magnitude!
- \cdot see code in 1.4 Multiple Regression

```
https:
```

```
//stats.idre.ucla.edu/stata/webbooks/reg/chapter1/
```

 ${\tt regressionwith-statachapter-1-simple-and-multiple-regression}$

regression [qm2, dirStu] 52/82

regressions

- - This is great! The coeff on exp is < .1 depending on specification; with .1 it means that 10 more years of experience (a lot!) would produce only 1 more \$ per hour

regression [qm2, dirStu] 53/82

regressions

- produce alternative models, eg merit v privilege
- but then always have a combined model with both to see which one is more important
 - is privilege affecting wages controlling for merit?
 - is merit affecting wages controlling for privilege ?
- ⋄if both merit and privilege affect wages
 - · (they do—we know it from theory and models)
 then if you run separate models, you have LOVB!

regression [qm2, dirStu] 54/82

general coding practices

- clean data and save it as something else (never overwrite the original files)
- omerge/append
- cleanup, save, and then for analysis start with clean:
 - · have a final clean combined data file that you will use from now on
- then descriptive statistics
- and inferential statistics
- ♦ NOTE: in the course of coding code chunks will be all over the place rearrange them

regression [qm2, dirStu] 55/82

file formats again

- ⋄again, no Microsoft files
- stata code-can append at the end of paper
 - ·can post online
 - ·can have a separate .do file
 - ·but never have a dofile with a non .do extension
 - · (unless it is an appendix in your paper)

regression [qm2, dirStu] 56/82

dropping outliers

- ♦ if dropping outliers, always say why
- $\diamond\,\mbox{and}$ may have an analysis including them in the appendix
 - ·if not sure... (unless it is obvious that outliers must be dropped)
- however, rarely anything is obvious in research
 - · best try different options/do robustness checks...
- yet, there is obviously a time constraint

regression [qm2, dirStu] 57/82

make it meaningful

- ⋄eg better have freq or perc for histogram
- avoid ugly graphs and tables: follow published examples!
- odon't forget about the practical significance!

regression [qm2, dirStu] 58/82

elaboration of the model

- start with a basic model
- possibly bivariate
- and have more columns adding more covariates as per theory
- the idea is that you test competing hypotheses/alternative explanations
- and in doing so show the robustness of your results

regression [qm2, dirStu] 59/82

do the whole thing

- why study only counties in South Jersey
- or only libraries in Philly
- when you can study all of them!
- and at very least compare with your small n results

regression [qm2, dirStu] 60/82

speculation/opinion

- ♦ this is not an op-ed
- there cannot be any speculation/opinion
- all statements must be supported by evidence
- evidence: literature or your own results

regression [qm2, dirStu] 61/82

this is soc sci, not data sci

- ♦ in social science all models must be theory driven
 - ·(this is not true in statistics or data science)
- ⋄choice of variables, functional form (e.g. log) must be theory-driven
- ♦ you need to be explicit why you run a model that you run

regression [qm2, dirStu] 62/8

satisfy assumptions

- you *always* have to take care of assumptions
- ⋄e.g. heteroskedascity etc
- odon't have to discuss in great detail in paper
- but have to have code—you need to show that you have done it!
- ⋄if you have many obs, no need to worry about normality

regression [qm2, dirStu] 63/82

yet, another note on collinearity

- again collinearity is just a correlation between independent vars
- ♦ you can see it with corr
- ♦ some people say that you have collinarity if say correlation >.9
- you really have collinearity most of the time
- ♦ you can also use vif
- ◇www.nd.edu/~rwilliam/stats2/111.pdf

regression [qm2, dirStu] 64/82

yet another note on BLUE

- what BLUE really means?
- how estimators compare ?
- lets compare efficient/inefficient and unbiased/biased estimators
 - · draw a picture (based on Kennedy)

regression [qm2, dirStu] 65/82

organize

- descriptive stats goes before the regressions, not after
 (unless in the appendix)
- oif descriptive stats is not very interesting (e.g. table of means and sd) just put it into the appendix
- instead of having alternative models, elaborate models
- figures and tables need captions and numbering
 - · captions need to be very detailed so that you can understand table/figure from the caption only
 - ·axes need to be labeled in the figure
- have to refer tables/figures in text

regression [qm2, dirStu] 66/82

contribute

- ⋄don't be modest!
- your paper needs to contribute to the literature
- t should be clear how it contributes
- ♦ again, explain:
 - · how come nobody else did this before
 - ·or/and how come they got it wrong

regression [qm2, dirStu] 67/82

get intuition; make it meaningful

- ♦ use beta coefficients
- use more descriptive statistics

regression [qm2, dirStu] 68/82

cite data; replication replication

- ♦ data you should clearly cite data
 - · best give URL and authors and description
 - · describe sample, time, sampling, etc
- your dofile should produce final results from the raw data
 - · do not just send me the dofile with few regress
 - it should have all the commands you executed after loading the fresh data

regression [qm2, dirStu] 69/82

interpret!

- beginning researchers usually do not spend enough time on interpreting the results
- there should be at least 1 page (12pt, double-spaced) of discussion
 - ·what have you found
 - ·substantive meaning
 - ·why does it matter
 - · "so what ?"
 - ·limitations/future research

regression [qm2, dirStu] 70/82

ols almost always useful; sometimes not best

- owhat data you have ?
- ols is good for cross sectional data only
- oif you have panel or time series or dyadic/network data you need different models!
 - · in this class it is fine, again ols will often give you reasonable results
 - ·but you should at least acknowledge the problems

regression [qm2, dirStu] 71/82

paper

Olet's have a look at Alesina's "Public Goods and Ethnic Divisions"

```
http://www.google.com/search?sourceid=chrome&ie=UTF-8&q=public+goods+and+ethnic+divisions
```

- ♦ note:
 - · nice elaboration/sequential models, eg TABLE III
 - · well-developed theory-alternative explanations
 - ·multiple models
 - · sensitivity analysis

regression [qm2, dirStu] 72/82

another example

- ◇http://theaok.github.io/qm2/
 CassPortfolioPaper-FinancialLiteracy.pdf
- skip nonlinear logit models!
- by a former student in this class
- note that it tells a story, it is interesting, engaging
- ♦ it contributes—we learn something new
- theory first, descriptive statistics second
- then regressions, interpretation and discussion
- ⋄last but not least, this paper looks polished and "publishable"

regression [qm2, dirStu] 73/82

more examples

- ♦ https://link.springer.com/article/10.1007/s11205-011-9812-y
- ♦ https://link.springer.com/article/10.1007/s12232-015-0223-2
- ♦ http://journals.sagepub.com/doi/abs/10.1177/0042098016645470
- ⋄go through at least some of them and do ask questions if anything unclear
- OMQE is mostly about interpreting regressions!

regression [qm2, dirStu] 74/82

practice interpretation

- http://link.springer.com/article/10.1007/
 s11482-014-9319-1
- hat is worse for wellbeing: inequality or poverty?
- ⋄ Tab1: note precise definitions of vars
- ♦ Tab2: some examples: be meaningful!
- ♦ Fig1, 2: des sta
- ♦ Tab3,4: coef, and std coef
- \diamond Discussion: gini ranges 32 to 60, if goes up by 6*.5=.3*100k (in avg county): 30k unhealthy days
- · causality: alternative explanations, reverse causality

regression [qm2, dirStu] 75/82

practice interpretation

- ♦http://link.springer.com/article/10.1007/ s11205-016-1327-0
- $\diamond\,70s$ v 00s: 50% wider happiness gap: middle class v rich
- ⋄Fig1, Table 1: des sta
- ♦ Tab2: interactions
- \diamond Fig2: \hat{Y}
- ⋄robustness checks: eg Fig6, Fig10

regression [qm2, dirStu] 76/82

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deta management

data management [datMan, dirStu]

GIS (todo)

do something useful

- odo not just merge, loop, reshape, etc
 - ·for the sake of doing it
 - · eg first split dataset, and then merge it back again
- playing is fine for learning and exploration
- but the final project must do something useful!

one-on-one

- ♦ again, let's work more one-on-one in second part of the class
- the idea is that by the end of the semester you will
 - · develop a great dataset
 - · understand your data really well (des stats, graphics)
 - · and be able to change/expand your data easily
 - also be able to manage output (tables, coeff, graphs)
 easily

how do i cite data

- ♦ the most proper way
 - http://www.bu.edu/datamanagement/background/cite/
 - http://libguides.lib.msu.edu/citedata
 - https://www.icpsr.umich.edu/icpsrweb/ICPSR/curation/citations.jsp
- the quick way way: just give url
 - ·you can also then load it directly into stata
- •but keep it on hardrive as well!
- ·data on websites change and disappear

outline litRev:https://theaok.github.io/generic/howToGoogSch.html opinion/activism v science a dilemma: publishable project or student project [NOT resMet] GIS (todo)

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