final project if little time just discuss briefly each TOC item also do see:

https://theaok.github.io/generic/howToPaper.html

adam okulicz-kozaryn adam.okulicz.kozaryn@gmail.com

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- 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 $_{\scriptscriptstyle [NOT \, resMet]}$
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opinion/activism v science

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opinion/activism v science

intuition

- many beginning scholars conflate opinion/activism with science
- youthful passion and excitement are great...but need to:
- o force ourselves to be objective because humans are not
- opinion/op-ed is not science

opinion/activism v science: a dichotomy?

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

Haidit's book 'Righteous Mind'

- "righteous:" being right and superior (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
- does activism binds and blinds (like morality)?
- argument building follows passion/intuition, not reason!
- guns, abortion, etc
- eg, why is it ok to make fun of Melania Trump and not Michelle Obama?
- o 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
- why? because you have some expertise in some other area
- it's one thing to have an opinion
- o another thing to absolutely sure you are right
- and yet doubt is necessary for science and progress
- do you even allow a possibility that you may be wrong?
- if not, then is it belief/religion or science?

anecdotal evidence, stereotyping

- similar statements, and you think only one is true!
- an 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!
- o see a philosopher or a priest
- but if we want to increase public safety, we should increase gun control

https://www.hsph.harvard.edu/hicrc/firearms-research/

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gun-threats-and-self-defense-gun-use-2
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- microaggressions/ political reasoning
- emotional reasoning
- Common Cognitive Distortions
- I'm offended is a trump card!; if it;s unwelcomed, that's it!
- trigger warnings
- catastrophize/zero tolerance

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what to study?

- what you're interested in (and usually knowledgable about)
- what is doable (there are realtively easily accessible data)
- what will further your career (think beyond graduation!)

2 keys to success: start early and ask q

- it'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
- use data from your work
- o no matter where you work-they always have some data

start with good data

- representative
- easy to use
- novel/innovative (eg twitter)
- local/familiar (so that you can compare to your experience)
- long term investment (use same data for years)

treat it seriously, don't waste your time

- not 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
- be efficient, use this class for something beyond this class
 o 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
- just reuse your problem sets
- yes, 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
- \circ state that in the text of the ps, 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
- it 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
- [*] Hollenbeck (2008)

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rules

- not too much background! cut to the chase asap
- max 1 slide per 1min; eg present 10min: 10slides
- max 15 lines of text per slide (ideally <=12)
- use graphs/pictures/maps as much as possible/practicable

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final paper/project in general [NOT resMet]

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 l study income inequality, because my family is unequal
- fun to work on something of great interest to you

be curious

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

interesting to others

- (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
- \circ do not write words that you do not use when talking
- be simple and clear:

"person", not "individual" "explain", not "elucidate"

the "so what" question?

- go through your final project and ask yourself "so what?"
- if 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

- quality vs quantitydo not just dump everything that you know on the topic
- 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
- 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
- o again, don't do boilerplate! better shorter than longer
- need to beef it up!
- if literature review only, need to cite really a lot; eg >100x

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
- etc

be smart and ethical

- do build on your earlier/concurrent work
- o 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!
- also per code: reuse yours (and others!): eg Glaeser's unhappy cities in JOLE; dataverse, authors websites
- ie: not just lit rev, but also build on others code: this is the fastest way
- \circ and do acknowledge that code taken from others, too

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inline response to comments on ps [qm*,dev,swb,dirStu]

inline response: like a peer-review process
inline response: quote *all* comments and reply to each below it

- i will give you comments on your draft(s) (eg each ps)
- so each subsequent ps will start with a section where you reply
- o don't forget about verbal comments from me and others 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 vous disagree) (eg say why

33/86

inline response: like a peer-review process

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

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i wish i knew it when i was a student

- instead of rephrasing what i have learned by reading other people description of good academic work
- i am just linking their writings
- following 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)
- o student's productivity depends on mentor's productivity
- have broad interests, be interdisciplinary
- T-shaped: broad, but also deep in one area
- for MPAs: "Have fun": engage with community, talk to and learn from practicioners! have impact, use your research for tangible effext
- put tools from this class to use; research should be used for practice and be informed by practice

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

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• 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
- if 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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wired article

- http://archive.wired.com/science/discoveries/magazine/ 16-07/pb_theory
- again, we have data revolution
- unprecedented amounts of data about pretty much anything
- with so much data, we can just look at basic correlations
- without being too serious about theory !
- note: 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
- o world is too complicated
- \circ we just want to show some useful pattern
- \circ that's all we can do
- o 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
- your regression model is always false, but hopefully useful

build new theories and models...

- because all theories and models are wrong, be creative
- come up with new theories in models
- don'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
- \circ your new theory/model may already be old
- (reinventing the wheel)
- \circ rather invent the new given the old–build on other's work
- you have to defend your theory/model
- why is it important ? "so what ?"
- o how come millions of other soc sci did not get?
- 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

conclusion: theory and modeling

- think out of the box
- be creative
- do not use models only because everybody else uses them
- defend your approach

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
- model works probably well most of the time, but as any model
- it sometimes fails

the end of theory, data is enough, airplane model [datMan, dirStu]

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regression [qm2, dirStu]

what next?

- now you know the basic and powerful tool of multiple OLS
- what next ?
- use it !
- turn your ideas into new theories and hypotheses
- and test those hypotheses by regressing the outcome (Y) 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...
- o 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]
- do not say that you expect that "gender affect wage" etc...
 why ? how ? so what ?

regressions

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

https:

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

regressionwith-statachapter-1-simple-and-multiple-regres

regressions

- e.g.: "When controlling for union membership, experience is not statistically significant; and even if it were statistically significant, it's practical significance is negligible."
- 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

regressions

- produce alternative models , eg merit v privilege
- but then always have a combined model with both to see which one is more important
- o is privilege affecting wages controlling for merit ?
- o 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 !

general coding practices

- clean data and save it as something else (never overwrite the original files)
- merge/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

file formats again

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

dropping outliers

- if dropping outliers, always say why
- 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
- o best try different options/do robustness checks...
- yet, there is obviously a time constraint

make it meaningful

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

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

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

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

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 !

satisfy assumptions

- you *always* have to take care of assumptions
- e.g. heteroskedascity etc
- don'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
- also do not spend too much time on violations; just need to take care of them in dofile!

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/l11.pdf

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)

organize

- descriptive stats goes before the regressions, not after (unless in the appendix)
- if 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
- o axes need to be labeled in the figure
- have to refer tables/figures in text

contribute

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

get intuition; make it meaningful

- use beta coefficients
- use more descriptive statistics

cite data; replication replication

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

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
- \circ what have you found
- substantive meaning
- o why does it matter
- "so what ?"
- o limitations/future research

ols almost always useful; sometimes not best

- what data you have ?
- ols is good for cross sectional data only
- if 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
- \circ but you should at least acknowledge the problems

paper

- let'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:
- o nice elaboration/sequential models, eg TABLE III
- well-developed theory-alternative explanations
- o multiple models
- \circ sensitivity analysis

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"

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
- also do read literature with OLS in your field, practice practice
- MQE is mostly about interpreting regressions!

practice interpretation

- http://link.springer.com/article/10.1007/ s11482-014-9319-1
- what 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
- 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

practice interpretation

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

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- 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 $_{\rm [qm^{*},dev,swb,dirStu]}$
- links: good research in words of others [YES resMet]
- the end of theory, data is enough, airplane model [datMan, dirStu] regression [qm2, dirStu]
- data management [datMan, dirStu]
- GIS [gis]

solid res: body of the ms: tip of the iceberg (appx) [all]

data management [datMan, dirStu]

do something useful

- do not just merge, loop, reshape, etc
- for the sake of doing it
- \circ 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)
- o 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

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

outline

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hist!

- do always discuss hist of at least one key var!!
- how is it distributed?
- where is the mass?
- any outliers?
- o etc
- and why did you classify the way you did??

outline

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solid res: body of the ms: tip of the iceberg (appx) [all]

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you need to do a lot

- see the top journals like nature, science, pnas
- they're super short like couple pages
- but have a ton of appendices/SOMs like dozens of pages
- do the same!
- o eg produce 50 descriptive stats, regressions, maps, etc
- but have in paper best 5 only
- thats the way to do it!
- give it to the reader only the very best
- and show to interested folks all the work and other angles and perspectives and complexities!

- HOLLENBECK, J. R. (2008): "The role of editing in knowledge development: Consensus shifting and consensus creation," in <u>Opening the black box of editorship</u>, ed. by Y. Baruch, A. M. Konrad, H. Aguinis, and W. H. Starbuck, Palgrave Macmillan, New York NY, 1–12.
- LUKIANOFF, G. AND J. HAIDT (2015): "The Coddling of the American Mind. In the name of emotional well-being, college students are increasingly demanding protection from words and ideas they don't like. Here's why that's disastrous for education'and mental health." The Atlantic.