intro

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<u>outline</u>

2 questions about yourself

- specific research interests? using any data yet?
- what do you expect from this class?
- ◊(if another person similar to you and work together!)

bad math, good statistics?

- ♦ actually, i don't like math
- ⋄i never did, and I'll never will
- probably like most of you
- but i love statistics
 - \cdot (because it makes sense of the world; math doesn't)
- wheelan is the same, see book's intro

approach: applied, examples, hands-on

- ⋄you're encouraged to collaborate (prep for class, ps)
- free to choose topics/data
 (as long as there are any research methods!)
 - ·kill 2 birds with one stone:
 - ·ideally, bring your own data and analyze it,
- or bring research done by others that interests you
- $\cdot \, don't \ worry, \ as \ long \ as \ you \ have \ any \ research \ interest$
- you'll find data and especially research about it
- \(\text{we'll go over finding research and data sources \)
 - · mostly just google scholar and google!
 - ·let's try it! https://scholar.google.com/

1st and 2nd half

- ♦1st half basics, and some math, go fast:
 - · basics, data, theory, general
- 2nd half more application, focus on paper
 - ·after: more applied and specific topics
 - · and more research oriented topics for the paper

recommended/extra/bonus

- only slides and assigned readings
 - · (mostly Wheelan and Trochim, and what i say in the class!)
 - ·are required and tested/graded
 - ·but it will be easier to follow if you do additional readings (and they are fun, too)
 - $\cdot [*] = extra/bonus$

grading/extra credit

- ♦i will be strict about grade scale:
 - you get the grade that your interval indicates (see Sakai for your grade so far)
- but there is opportunity for extra credit, eg:
 - · answer extra credit questions during the class
 - · have an early presentation of your research
 - · find typos/false statements in class materials
 - tell me about useful course materials: books, datasets, websites, etc
 - · engage civically (see at the end of syllabus)

statistics is everywhere (Wheelan, 2013, ch1)

- statistics is everywhere
- ♦ we use it all the time
- oit makes sense of, and simplifies world
- but also, it doesn't give the full picture; may mislead!
- ⋄eg grades: A, B, C, F; GPA, etc
 - ·some of the smartest people I know
 - · are dropouts or get bad grades
- ·largely because they cannot navigate the system (Tough, 2014)
- oreverse is true as well: many educated are not so smart!

consumers, not producers :(

- we won't use statistical software
- ·still will do some rudimentary calculations and research
- · if you are interested in doing research professionally
- ·sign up for our PhD program!
- http://dppa.camden.rutgers.edu/degrees/phd/
- oand come to office hours to talk about Python
- if you plan to collect data, or use confidential data
- ·like student scores, start early! it takes time to get it!!
- · and seek IRB: https://orra.rutgers.edu/formsandtemplatesartsci

wrap-up

- oend every class discussing what we covered and quick look at next week
- ⋄end with a review Q&A,
- give some examples (essp in pub pol and pub adm) for concepts covered
- students will discuss concepts from the class

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quick look at next class

bibliography I

Levitt, S. D. and S. J. Dubner (2010): Freakonomics, vol. 61, Sperling & Kupfer.

TOUGH, P. (2014): "Who Gets to Graduate?" New York Times.

WHEELAN, C. (2013): Naked statistics: stripping the dread from the data, WW Norton & Company.