data and description

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<u>outline</u>

misc

basic research design [repetition? making sure basics covered]

LQ

analytical methods for regional development (Blakely and Leigh, 2009, ch1, 6)

NECESSARY readings

- ◇https://data.bls.gov/cew/doc/info/location_quotients.htm
- · [if need more reading, some descriptive examples for Indiana: http://www.incontext.indiana.edu/2006/march/1.asp]
- http://data.bls.gov/location_quotient/ControllerServlettry to calculate LQ yourself

Sage Publications, Inc.		
LORIDA, R. (2008): Who's	s your city?, Basic Books.	

BARRO, R. (1999): "Determinants of democracy," <u>Journal of Political Economy</u>, 107, 158–183.

BLAKELY, E. AND N. LEIGH (2009): Planning local economic development: Theory and practice,

MACKIE, J. AND J. MACKIE (1980): The cement of the universe, Clarendon Press Oxford.

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LG

define variables; maybe table with definitions in the appendix

presention: be thorough, but simple; tell a story

quote data source in detail; give url

do not help with argument

- describe sample in detail: time, location, sampling, etc... what is your contribution? how come everybody else got it
- wrong or missed it? there has to be some contribution in your paper! data?
- method? idea? avoid results padding: do not present tables, graphs if they do not tell a story or if you do not discuss them or if they

misc

```
    avoid ugly tables
    graphs/tables need to have captions that are self-explanatory
    graphs/tables need to be referenced in text
    show 2 or 3 decimal points, no scientific notation, no vertical lines in tables
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all vars must be defined clearly (say key vars in text, others)

do not say "increase by one unit"; what is the unit?

eg https://sites.google.com/site/adamokuliczkozaryn/
 pubs/livability-nov19_aok.pdf?attredirects=0&d=1

annotate/label patterns in graphs

in appendix)

presenting results

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a research design is a class itself

- oa quick, useful and applied reference is http://www.socialresearchmethods.net/kb/design.php
- ⋄a more in-depth treatment is Lawrence B. Mohr, Impact Analysis for Program Evaluation

spurious correlation

- ♦ say, global warming...
- · we have it—we can measure temperature
- · but the cause: we may think it is CO_2 , but actually it is Sun activity
- · or the other way round
- another way to say it: correlation is not causation
- oneed theory and mechanism, so called "causal path"

the gold standard: the experimental design

- only with experimental design you can confidently argue causality
- and it is because randomization takes care of the known and unknown predictors of the outcome (draw a picture of 2 groups of people)
- most of the time we cannot have an experimental design because it is unethical and politically impossible eg we cannot randomly assign kids to bad school or to smoking
- http://www.socialresearchmethods.net/kb/desexper.php

threats to internal validity

- history, maturation, regression to the mean
- ·something else happened that caused Y
- · things develop over time in a certain way
- selection bias, self selection
- · does smoking causes cancer?
- · maybe less healthy people select to smoke?

you still can have a valid inference

- ♦ but you need to do more work...
- essentially you want to exclude alternative explanations
- so you act like a devil's advocate
- and try to abolish your story / find an alternative explanation
- if you cannot find any, then your story is right...until disproved

- Insufficient but Non-redundant part of Unnecessary but
- ♦ eg a cigarette as a cause of Forrest fire
- it's Insufficient, because by itself it is not enough, eg you

also need oxygen, dry leaves, etc

- ·it is contributing to fire, hence Non-redundant
- and along with other stuff (oxygen, dry leaves etc) it constitutes Unnecessary but Sufficient Condition
- ·it's not necessary for fire, it can be lightening, etc
- ·but it's sufficient it's enough to start the fire

two basic designs

- you can look over time (PRE, POST) (draw a graph)
 eg you can trace unemployment over time in Camden
- · and, say, you can find that it increased during Reagan administration...
- ·but you cannot argue causality right away!
- · there may be lots of alternative explanations, eg shift away from manufacturing during the same time, etc etc
- ♦ and you can look across space
- eg you can compare Philadelphia to Camden

comparing Camden, NJ and Plano, TX

- a quick way is to use QuickFacts
- ♦ https://www.census.gov/quickfacts/
- https://www.census.gov/quickfacts/fact/table/
 planocitytexas,camdencitynewjersey,TX,NJ/PST045217
- what's interesting here?
- Camden has about 7 times more Blacks and 8 times fewer
 Asians
- ♦ homeownership rate: 20% lower in Camden
- ♦ Plano: only 7% of population in poverty; Camden: 36%
- •TX almost twice as many people in Poverty as NJ: 17% vs 9%

full census data

- ⋄census is a good source of data, even at neighborhood level!
- ♦ for city/neighb lev probably want 5-yr ACS
- https://geomap.ffiec.gov/FFIECGeocMap/GeocodeMap1.aspx
 [find census tract]
- https://factfinder.census.gov/faces/nav/jsf/pages/
 searchresults.xhtml?refresh=t
- say topics-people-poverty
- ⋄ for 2 census tracts in Philly: 137 and 138 (Brewerytown)
- oalways show map of an area! eg
 https://www.policymap.com/maps

levels of analysis

- \diamond you are probably familiar with term Unit of Analysis (U/A)
- oin regional development a peculiar thing is that there are many levels
- there are states, counties, metropolitan areas, cities, etc
- and you often get different and even opposite conclusions depending on what level you are looking at

variables at different levels may have opposite effects

⋄eg if i increase your salary, you'll be happier

different levels, different effects

- but if i increase salary of everybody in your county you'll be less happy
- would you like to live in a world where you make \$100k and the average is \$150k
 or would you like to live in a world where you make \$75k
- and everybody and the average is \$50k people chose the second scenario
- "a rich guy is a one who makes \$100 more than his wife's sister's husband"

outcome

- matters
- matters \diamond so it is not only characteristics of the U/A that predict your

whatever you study it takes place somewhere and place

- ⋄but also the context (characteristics of larger units in which U/A is nested)
- student is nested within a classroom, a classroom within school, a school within a district, etc etc
 a firm is nested within a city/metropolitan area/town,

which is nested within a state, which is nested within a

COUNTRY
basic research design [repetition? making sure basics covered]

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data and development

- development planning begins with understanding of the of the local economy
- oif you cannot measure it, your knowledge is of 'meager kind' (Lord Kelvin)
- and you also want to keep on measuring to see what is going on
- · is the situation improving?
- · any interesting trends?
- · how are we doing compared to other similar localities?

some performance measures

- oppulation, employment, income (Census Quick Facts)
- firm births, deaths, and relocations
 (http://www.bls.gov/web/empsit/cesbdhst.htm)
- oproperty values and tax revenues (Zillow, census, https://taxfoundation.org)
- analyze over time; and across space:
- · compare to state, metro area, nearby cities
- ·variation among demographic subgroups and sub-areas
- ·link indicators to key goals & track over time

labor force characteristics

- this is key! jobs are key!
- especially in those difficult times
- key in attracting new employers
- you want to have people in occupations that have good prospects
- ◇a great resource is BLS occupation outlook: http://www.bls.gov/ooh/

labor force characteristics

- Olow labor force participation for a specific demographic group may suggest lack of opportunity, discouraged workers, discrimination, etc
- median commute time is interesting indicator
- · if high it suggests a mismatch between housing and job markets
- · and it produces congestion, pollution and unhappiness (people are most unhappy when commuting)

businesses, job supply

- you also want to look at job suppliers—businesses
- interesting thing is that many businesses cannot find people to fill open jobs
- and there is unemployment and underemployment of course, so there is a mismatch
- ♦ http://www.forbes.com/sites/jacquelynsmith/2012/05/29/ the-10-hardest-jobs-to-fill-in-america-2/
- ♦ http://www.nytimes.com/2012/06/28/business/smallbusiness/
- even-with-high-unemployment-some-small-businesses-struggle-to-fill-positions.

html?pagewanted=all

BEA

- ♦ a terrific website!
- ounder regional data you will states and metros
- ♦ and even some smaller areas like counties!
- ♦http:

```
//www.bea.gov/iTable/iTable.cfm?reqid=70&step=
```

1&isuri=1&acrdn=5#reqid=70&step=1&isuri=1

wages

- ♦ http://www.bls.gov/bls/blswage.htm
- by census division
- ♦ http://www.bls.gov/ncs/ocs/compub.htm#Division
- ♦ by state http://www.bls.gov/oes/current/oessrcst.htm
- ♦ metro http://www.bls.gov/ncs/ocs/compub.htm
 - http://www.bls.gov/oes/current/oessrcma.htm

living wage, poverty

- Families working in low-wage jobs make insufficient income to live locally given the local cost of living.
- Recently, in a number of high-cost communities, community organizers and citizens have successfully argued that the prevailing wage offered by the public sector and key businesses should reflect a wage rate required to meet minimum standards of living.
- ♦ living wage calculator by county http://livingwage.mit.edu/

property values

- ⋄an indicator of place desirability
- ·low in Camden nobody wants to live here
- · high in Manhattan everybody wants to live there...
- also reflect job opportunities:
- · you can afford Manhattan housing if you have a Manhattan job
- ·you can afford Camden housing if you have a Camden job

property values

- ♦ http://www.zillow.com/local-info/interactive
- ♦ https://www.zillow.com/research/data/ download
- ♦ http://www.city-data.com/
- ♦a useful calculator

http://cgi.money.cnn.com/tools/homepricedata/

tax revenues

- ⋄a measure of local economy health
- ♦ state and local taxes https://www.census.gov/programs-surveys/qtax.html

ecology: land, agriculture, etc

- everything takes place in some ecology
- ♦ and ecology matters
- ♦ https://www.ers.usda.gov/data-products/

basic analysis: understanding

- look by industry/sector over time and across space
- oneed to understand economy's strengths and weaknesses and think about wheat may be driving them
- ◇a useful concept is that of outcome line http:
 //books.google.com/books?id=GBxhOT8btfYC&lpg=
 PA16&pg=PA15#v=onepage&q&f=false
 see general one, and then example

think of the larger context

- where are we in the business cycle
- what are the global trends?
- · they do affect the local economies
- · outsourcing manufacturing jobs to China
- Olocal economy is not simply a fraction of the national economy, though
 - for instance if the there is drought in Latin America, lowa will benefit more than Nevada (it produces more food)
- onew police lowered crime? crime declining everywhere!

standardize

oif you go over time, you need to deflate dollar amounts
http://www.bls.gov/data/inflation_calculator.htm/
http://www.duke.edu/~rnau/411infla.htm

♦ if you go across divide by population: otherwise you cannot compare, say Philadelphia to Camden

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_Q 37/4

basics to understand (Blakely and Leigh, 2009,

p164)

- which local parts of the economy are most valued by locals
- how locals compare themselves to others(can do a survey, interview, focus group)
- ♦ what's the local economic base (LQ)
- ·what accounts for most jobs and wealth
- · and what's growing/declining most rapidly
- omultiplier: how growth/decline in one part affects other parts
- which firms are a part of interdependent cluster

economic base

- oexporting industries are important—they bring the money to the locality
 - opportunity for substitution

 it's businesses that generate wealth that should be targeted

imports are important to look at, too, there may be an

- oit's businesses that generate wealth that should be targeted for attraction and nurtured
- •we used to focus on industries, but now focus on people, eg creative class (Florida, 2008) — an occupation-centered economic base

LQ 39/·

LQ (Loc Quotient) (specialization index)

 $\diamond e_i$ local employment in industry i e tot loc empl

 $\diamond E_i$ national employment in industry i E natl tot empl

◇https://data.bls.gov/cew/doc/info/location_quotients.htm · [if need more reading, some descriptive examples for Indiana: http://www.incontext.indiana.edu/2006/march/1.asp][enlarge table, also perc change is useful]

♦ http://data.bls.gov/location_quotient/ControllerServlettry to calculate LQ yourself https://data.bls.gov/cew/apps/ data_views/data_views.htm#tab=Tables ⋄eg Private, 101 Goods-producing, All Counties: Autauga

County, Alabama

⋄ v Total Covered, 10 Total, all industries, All Counties

(2,270/10,975)/(21,588,076/145,186,369)=1.39

BLS LQ

- ◇https://data.bls.gov/cew/apps/data_views/data_
 views.htm#tab=Tables
- ♦ at home compare Camden NJ to Collin TX
- ♦ and Camden, NJ to US in different time periods
- ex: eds&meds Camden county v NJ (2013): (40/160)/(600/3240)=1.36
- onote: also useful to over time: eg employment this year v 10 years back
- ♦ again as in 2nd table https:

//data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables

LQ 41/45

interconnectedness

- most things are produced from things that somebody else produces
- and hence my performance affects that of my suppliers and people whom i supply
- ♦ a similar idea is that of clusters

LQ 42/4

clusters are..

- ⋄ geo concentrated
- have competitive advantage because they are concentrated
- ♦ share supplier and buyer (marketing) advantages
- are supported by advantageous infrastructure in a region eg universities, venture capital

LQ 43/4

paper

- again, a useful trick is to combine different types of data to come up with a contribution
- talk to your classmates!
- · eg food deserts and crime
- · eg weather and migration, etc, etc
- your paper does not have to be quantitative
- · still, can approach your topic from different angles

LQ 44/4

next week

• we will always end the class by having a quick look at the next class

LQ 45/4