

money

adam okulicz-kozaryn

`adam.okulicz.kozaryn@gmail.com`

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outline

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you got some skills

- ◇ yes, we are at the bleeding edge of data management in soc sci !
- ◇ fewer than 0.01% of soc sci use git, unix utilities or python
- ◇ very few can use advanced stata and write good code
- ◇ as corollary, most soc sci don't know what to do with data
- ◇ and their data has problems

computers taking over the world

- ◇ few years ago, only blue collar jobs were wiped out because of computers
- ◇ now computers crowd out even people with PhD
- ◇ computers can do and will do more and more
 - e.g. computers can learn, etc etc
 - not only cpu power doubles every 18mo but also storage
- ◇ hence, you better be a friend with computer

use data management skills to make \$

- ◇ there are more and more jobs that require data mgmt skills both in academia and in industry
- ◇ with skills learned in this class you can get both types of jobs
- ◇ now there is even a new field “computational social science”
- ◇ which is a combination of IT and soc sci
- ◇ in fact every field will require more and more of IT skills

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assisting faculty

- ◇ most faculty have some data but they don't know what to do with it
- ◇ this is where you come in
- ◇ ask faculty around if they need help with data
- ◇ don't sell yourself cheap, ask to be a coauthor

teach this class

- ◇ i am leaving utd
- ◇ if you got A in this class, i would be happy to recommend you to teach a class like this
- ◇ let me know if you are interested

postdoc

- ◇ many prestigious universities offer postdocs positions
- ◇ and many of those positions are about helping with data prestigious faculty
- ◇ this is a good opportunity
- ◇ money is not great
- ◇ but you have all of the other benefits of academia

research institutes

- ◇ same with research institutes
- ◇ they have a ton of data
- ◇ and need people like you to manage it

become data scientist

- ◇ you can also pursue career in this new emerging field of “computational science”
- ◇ you will be collecting, managing and analyzing data
- ◇ which pretty much means writing computer code
 - like in this class
- ◇ fun !

where are these jobs?

- ◇ you will find lots of these jobs just by asking around...
- ◇ try usual academic websites for academic jobs like
<http://chronicle.com>
- ◇ sign up for listserves: e.g.
- ◇ <http://polmeth.wustl.edu/mailling.php>
- ◇ Harvard quant jobs:
- ◇ <http://www.iq.harvard.edu/opportunities/employment>

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why industry

- ◇ they pay good money
 - you can be making over \$100,000 just running some stata/R/python
- ◇ but you can also supplement your academic income
 - do consulting/freelance jobs for industry
 - there are lots of jobs like that

what they need

- ◇ typical industry jobs will ask for sas and sql

sas

- ◇ sas is not that difficult if you already know something similar like stata
- ◇ you can learn it reasonably well within a week
- ◇ all of the principles/techniques learned in this class still apply
- ◇ i think sas will be less and less popular, anyway
 - it is just one of those inefficiencies that locked in due to path dependency
 - like QWERTY keyboard
 - or Microsoft
 - but who knows? we still use QWERTY keyboard...

sql

- ◇ similar with sql...
- ◇ that is, it is not complicated to learn once you know something like stata/R/python
- ◇ as opposed to sas, i think it is useful, and it is not going away

stata

- ◇ but stata is used outside of academia, too
- ◇ it has some medical certifications
 - for instance it is often used for medical trials
 - and in general, the healthcare industry seem to like stata

R

- ◇ R is popular outside of academia as well
- ◇ people in finance would use for instance

python

- ◇ python is a general programming language
- ◇ it can be used for anything; e.g.:
 - writing android apps (stata app anybody?)
 - ...

- ◇ gis is very useful, and undervalued, i think
- ◇ again, no matter what you study, it takes place somewhere and place matters...
- ◇ local government need gis people for instance

where are these jobs?

- ◇ <http://web.ccsu.edu/datamining/jobs.htm>
- ◇ <http://www.kforce.com>
- ◇ <http://www.gadball.com>
- ◇ <http://hotlinuxjobs.com/>
- ◇ <http://www.icrunchdata.com/>
- ◇ <http://www.cybercoders.com/>