# Standing on the Shoulders of Keynes

#### An Economist's <u>Educator's</u> Perspective on Digital Resource Issues

#### **Michael Smitka**

Professor of Economics Washington and Lee University Lexington, Virginia 24450 USA Fulbright Fellow, Chiba University 〒263-8522千葉市稲毛区弥生町1-33 千葉大学法経済学部

http://home.wlu.edu/~smitkam

# Main point

Need to teach
What data is available
How to find it
How to evaluate it
Why?
Professors don't do it
Professors can't do it! (often not computer savvy...)

# Secondary points

 Need consider how researchers look for data What do they expect? Usage habits are deeply engrained: databases that do not match habits may not be used Need think about what data researchers need The latter is my "Keynes" point Differs a lot by field Lots of "holes" in collections We must get researchers to use these resources

## Structure of talk

Example of teaching-oriented research ↔ How I do it How a student might do it Social science research needs General considerations What I use Dissemination of methology Liberal arts college context Most US students NOT in research universities And in the US, this includes many of the "elite"

Teaching-oriented research example – Origins of "Standing on the Shoulders of Giants" –

No more need to go to a library
Did not find Bartlett's <u>Quotations</u> so...
Proxy server to my university
Linked to <u>Encyclopedia Britannica</u>
yielded the use of the phrase by Isaac Newton
from a well-known Robert King Merton book
confirmed my vague memory of the source
But what was Newton's original?

#### Then tried Oxford Reference Online

#### Meta-database

- Initially I did not know the actual source I used
- I had to redo the search to check!
- It was The Oxford Dictionary of Scientific Quotations
- "If I have seen further it is by standing on ye sholders of Giants." Letter by Newton to Hooke, 5 February 1675/6.
  - Newton quoted Robert Burton's *The Anatomy of Melancholy* (1624): 'Pigmies placed on the shoulders of giants see more than the giants themselves'.
  - Who used Bernard of Chartres in the early 12th century
  - Who may have used the Roman grammarian Priscian.
  - Source: Merton, On the Shoulders of Giants (1965).
    - So everywhere I went ultimately depended on Merton....

# But then checked Wikipedia

Yielded same basic information
More detail on 12th century source *PLUS* photo of Chartres Cathedral (*13th century*) with links to art resources *AND* brought up to date:
Use in rock albums, contemporary culture
And as motto of Google Scholar
and hence this conference??

The Glorification Of Christ (top)

St. 1419 160

Luke-Jeremiah Matthew-Isaiah Christ Family John-Ezekial Mark-Daniel (bottom, left to right)





#### South Rose Transept Window, Notre Dame Cathedral, Chartres, France

http://upload.wikimedia.org/wikipedia/commons/d/d2/Chartres2006\_065.jpg

The Evangelist Mark on the Shoulders of the Prophet Daniel

Right Pane

University of Pittsburgh Images of Medieval Art And Architecture

http://vrcoll.fa.pitt.edu/medart/ image/France/Chartres/ Chartres-Cathedral/Windows/ Transept-windows/ 122A-South-Rose/ Chartres-122SouthRose.HTM



# Still, incomplete

#### These sources missed one substantive use of the phrase

Motto of the \$250 million capital campaign coinciding with the 250th anniversary of the founding of Washington and Lee University

And thereby to my salary!

 Especially as the campaign ultimately raised \$300 million (350億円…)

Because W&L has many Fortune 500 CEOs and other very wealthy & successful alumni

#### But what if I was a student? - Google! -

 Skipped first reference, in Japanese ◆「巨人たちの肩の上に立って」 ◆ 何らかの変な英文法のサイト . . . 絵が中心 . Next one strange (£2 British coin) Japanese-language wikipedia unhelpful! Did give 2 useful links Also several misleading or partial links Which would a student use? Sometimes vastly inferior or garbage sources because they are at the top of Google!

#### Keynes General Theory passage

Google led to Wikipedia which yielded the full quote

Beauty contest analogy
Task is not to pick the most beautiful face
but the one others think most beautiful
We have to collect and store the faces
But we don't know the rules for future contests!

What will researchers want to look at?

## **Social Science Context**

Lots of types of data
Statistical data: much now online on various government sites
Archived?
Can I relocate and know it's the same?
Data only partial: some still hard copy
「毎月勤労統計調査」 is all online *except* the parts I need to use!

## Social sciences, continued

"Grey" matter (cf. "black" matter in physics ... we know of it but...)
 Irregular government publications
 Government advisory groups
 Contracted research reports
 Ditto for many industry associations
 Not clear anyone collects this
 Associations don't always (seldom!) keep archives
 Company histories, etc.

### Social sciences, continued

Opinion surveys (ICPSR reference yesterday)
Popular culture / daily lifestyle sources

Chirashi (advertising inserts), similar material
Train passes (パスネット・カード) phone cards
Local residence associations & maps
Blogs, photo collections, internet ephemera

And so on!

Need to predict future research directions+!

#### What I use

How economists communicate...
On my browser I have bookmarks for standard statistical sources (BOJ, MOF)
\*System of National Accounts (GDP)
\*Census of Manufactures (工業統計表)
\*etc

My primary source is working papers http://econpapers.repec.org

### Not same as "pre-prints"

economists around the world will present research at several seminars
discussion papers "published" as pdfs so participants can access
Repec.org and EconLit as databases
BUT no repository; papers often disappear
Google often locates "lost" papers
but not always

No idea whether they're ever published \*I don't care, either!

#### My sources (2)

Through my library I get TOC services I have to specify journals for which I receive Tables of Contents I link automatically to full-text copies I do much of my work from home If it's only "on-campus" I may not read it For new topics & lectures I also turn to: \*EconLit Factiva [Dow Jones?] and LexisNexis

#### My sources (3)

- I seldom use hard copies of journals
  When I do, I send a "work-study" to copy them
  As an academic, I love books
  entering a library is dangerous
  Having access to the non-book economics literature from my desktop is also dangerous to this addict
  - To write, I must go to a coffee shop

My sources (4th and last) I do visit libraries a few times a year... To scan books to use in courses I teach To get books on new research topics I start with a boolean card catalog search I then scan shelves to cut from 60 to 6 books To check out DVDs (no TV at home!) But I get a list from my desktop computer I check them out at the library entrance So that I don't get near a book or journal

So in order to... Stand on the Shoulders of Keynes Must teach others how to play the game Else no one will see the faces we collect Must offer in a way that matches use habits I expected to be able to find it from Japan I expected to be able to find it at an odd hour I expected to be able to find it without knowing which databases were appropriate I expected to be able to do it for free

Are you designing a database I will use???

North American Coordinating Council On Japanese Library Resources

北米日本研究資料調整協議会

200

My tools limited to *Bibliography of Asian Studies* 
 In Japan, from professor to professor
 From library to library
 Footnotes not always very thorough
 Had to visit Japan to do useful research

 Growth of ILL resources: GIF etc
 Bibliographic databases for Japan
 Only by happenstance that I learned such resources existed!

# NCC experience

#### When joined Board of NCC

- T3 project: training the trainers (Japan librarians)
- Researchers scattered, not connected to research library
- Also our older colleagues not computer oriented
- Pushed for "regional task force" to run programs at Association of Asian Studies meetings, similar forums
  - Evangelism: Very limited time, little to no hands-on
    So usage still quite minimal

Junior researchers are often little better?

# Summary

 How to use modern library resources is not taught at any point in a scholarly career
 Ironically, despite my NCC involvement I still don't know how to use many of the Japanese-language bibliographic resources
 No hands-on learning context

## Lots of colleges

 Iots of small regional and national schools
 Plus state universities and research universities

Community colleges (2-3 year programs)

- My wife teaches nursing in one (RN program)
- My son attends as a step to a 4-year school
- My daughter as "社会人" to learn business skills

Virginia has about 86 colleges

But many have more than one campus
 California has 1500 institutions

# So what?

There are no specialist librarians! Many librarians are trained in other fields BUT there won't be one in your field at your school Only one science librarian at W&L (an anthropologist by training) The closest Japanese collection is the Library of Congress (300 kms) I use the University of Michigan more often (1000 kms)

## Liberal arts teaching context

W&L is representative of the elite top 100 "national" schools 1800 undergraduate students 4 courses per term [2 x 12-week terms] under 25 students per class Classes meet 3 times per week, one hour per class Science classes add 4+ hours of lab per week "Open" offices -- my door is never shut Fortunately (?) I am on a quiet hall

### Expectation of students

Lots of hands-on requirements Papers, presentations, tests Ideal is one assignment due each class, but.... Getting 75 papers at the same time generates 30 hours of grading! -- so short assignments dominate : Students are regularly asked to locate, organize, evaluate and communicate information How are they trained to locate information? POORLY if at all...

• Libraries should do that, right ?

# Shift in library role

Old pattern was "Economics 190"
\*1-credit (1 hour per week) research methodology course
\*Taught by library staff
Once done for roughly 40 majors
\*Now only a handful have such courses
\*Most seldom taught
Economics has eliminated altogether
\*No required course covers techniques

# Library usage

Library usage down
Visits by students
Visits by faculty too...
Much less use reference desk etc
Students work from their apartment, from coffee shops, etc - 24 hours a day
My earlier example is representative
Done late at night!

Expectation that I can find resources quickly and for free

# Who is to teach?

- Libraries not successful in keeping role
   At one time library time was part of primary and
  - middle school
    - I knew how to use a card catalog by age 10
    - But boolean database searches?!
- College faculty seldom "teach" such skills
  - In part done through office hours, hands-on help for students with questions on a project
  - In part deliberate as not our job
  - In part because we aren't competent!

### Naïve use

Students are naïve in how they find and use **Only 2% of students start research in library** Google dominates, also news sources, blogs JSTOR, sometimes Factiva, LexisNexis • When not accessible off-campus, not used! In economics, full stats often available But Yahoo! headlines are what students use... Also plagiarism issue: not trivial W&L expels students caught cheating

# Conclusions

Librarians must be savvy marketers
Advertising is important
Product design is important
If students and faculty don't come to libraries / use databases...
... the efforts of this group are in vain

# Conclusions

Librarians must serve as teachers
 How to use resources
 How to evaluate resources
 How to cite resources
 Don't assume professors do this!!
 Many are too old to learn new tricks
 Many don't try to teach such skills

# Conclusions

Librarians must build collections
Academics <u>not</u> oriented to doing so
Lots of important research possible because of some long-dead archivist
Anthropometrics
US Civil War pensioner health records
My current wish list
新聞のチラシ! (newspaper advertising inserts)

### **Concluding conclusion**

You must envisage what the next generation of researchers will need!
 You must stand on the shoulders of others...
 ...your professional colleagues...
 (who, me??)
 ... even when they are not giants

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