Things they are doing well or at all

Publishing/Outputs

- Publishing
- Presenting their research

Teaching

- Teaching
- Sharing research with students in classes
- Blackboard

Scholar-to-scholar

- Review papers
- Correspond with colleagues
- Networking
- Know the experts in their field
- Collaborating
- Know professional societies
- Attend conferences
- Consulting librarians

Research

- Have strategies to get themselves unstuck
- Find articles that they need
- Know library
- They subscribe to print journals in their field
- Email alerts/Table of contents
- Finding primary sources even under difficult conditions
- Looking for new ideas
- Mine bibliographies
- Doing a lot of reading of books, articles, etc.
- They can use the catalog to find what they need
- Staying current in their research
- Capturing – extracting nuggets of relevance
- Finding high quality non-scholarly information on the Internet
- Googling
- Getting external datasets

Annotation

- Printing off to annotate
- Organizing materials they find
- Taking notes
- Transitioning from paper to electronic
- Saving info/research to personal space / collection rather than just using it and moving on
- Using citation management software like Zotero
- Visualize in a non-linear fashion

Multitasking

- Multi-tasking in a virtual world
- Working on one idea but collecting background knowledge for other projects

Working with and against Tech

- Being comfortable in both digital and analog environment
- Assembling the necessary technologies
- Circumventing the system
- Update research technologies

Understand their discipline/field and how it relates to other fields

Become marketable - job

What they have trouble doing or can't do

Organization

- Controlling email
- Losing information
- Too much information, information overload
- Merging different organizational systems that have used in the past (getting new computer every two years because organizational structure becomes unwieldly)
- Using Zotero and wants to merge previously saved material to Zotero (1 system)
- Don't know how to organize notes, so print out and cut apart and organize, taking notes too linear
- Cutting and parting bibliographies to create new bibliography
- Annotating with library books

OPAC shortcomings

- Terminology
- Precise spelling
- [Google Scholar and Catalog] difficulty scanning results without abstracts

- Library catalog doesn't have needing info, e.g. book review
- No visibility of clarification scheme

Limitations of using library services

- Unaware of library service (e.g. had to copy and entire book)
- Not being able to borrow some formats (video)
- Waiting for information/document
- Not available online
- Can't get to article online
- Not knowing services to access research at own university so just call colleague somewhere else to get it
- Not knowing who to ask when stuck

Browsing

- Browsing physically in stacks not like the old days any more
- Foreign language material not physically together at all [at EUL?]
- Browsing online
- Keep/holding multiple transactions e.g. lots of browser tabs
- "bad" physical organization of library

Don't know what you don't know

- Don't know how their research extends into other fields
- Remining past research sources to apply it to new research
- Randomness of learning about new research in field (just getting random email about article or author)
- Not knowing you have found everything relevant
- Not knowing if you have a new idea
- Finding obscure sources
- Only know 1 or 2 databases

System problems

- Blackboard
- Trouble using Confluence
- Not understanding system in a new area
- Not sufficiently aware of catalog functions (e.g. networked resource)
- No wireless connection

Keeping Up In Field

- Reading newspapers
- Receives emails from listservs
- Browse current periodical room
- Browses flyers from publishers/advertising
- GS training session at the library
- Writing anthology in the field
- Invite librarians to instruct students on library research
- Publishers' websites (visit)
- Department colleagues (talk to)
- Read bibliographies
- Heard from a collaborator
- Alerts (receive)
- Newsgroups (subscribe to)
- Conferences (attend)
- Personal contacts (talk to)
- University website
- Other people's manuscripts
- Advertisements
- Browsing constantly on Internet or physically
- Google search (broad)
- Graduate students who are more on top of things
- "human search engine" (collective TOC produced by a few people)
- Handbooks in the subject areas
- Subscribe to journals
- Giving presentations & getting feedback
- Browse new acquisitions shelf in library study room
- Talk to colleagues
- Read book reviews
- Keeping current on resources and on tools for research eg. Zotero
- Subscribe Science Direct top 25
- From colleagues
- Serves on editorial board – sees articles
- Visiting databases once a year
- Going to give talk and getting set up to talk to people
- Get preview releases from professional associations
- Attend artifactual shows such as Art shows
- Browse print journals
- Receive Amazon-like new acquisition messages based on previous purchases

- Use undergrad assignments to keep up with new developments and publications
- Trailing citations backward and forward to find other related materials
- Scan materials received by their departments – kept at faculty lunch/meeting area

Metadata and Information that would help a researcher find resources

- Online bibliographies
- Online primary sources
- Concept mapping
- Reader reviews (user-supplied metadata in catalog)
- Trainable search engine
- Database of data
- Search full-text annotations on computer
- Button that would automatically update old organizational structure with new approach
- Del.icio.us – like system for organizing articles with multiple tags
- Association-generated database of "top researchers" in each area
- Library catalog search has ease of google searching of library resources
- RSS readers for top journals that deliver my selected topics
- Title, publisher, author, abstract, table of contents
- Color-coding
- Annotate
- Abstracts
- Other book by same author
- Other books in series
- Del.icio.us user contributed tags
- Outlier citation meets some criteria
- Novel
- New
- Tiered journals
- Customizable portal for "my own" resources
- Make library service available at point of need (prompt "do you want to library to purchase this?")
- Make collection virtually browsable
- Find articles by popularity of authors and journals – they emerge to the top of list
- TOC as metadata
- Concept mapping to understand scope of coverage & relation to other topics for interdisciplinary work
- See only items that are readily downloadable in PDF format
- Queue of what you've already looked at – books and articles
- Mine for department/institution/year
- Mining dissertation abstract for thesis/advisor relationship

User supplied metadata

- Assign a reader level such as good for undergrads or introductory
- Copyright status
- Similarity or maybe identical articles by the same author
- Information @ methodology and content type – commentary, research article, review, primary data, etc.
- Ability to request the article or info
- Remap existing tags to my own vocabulary
- On the fly metadata
- When I last looked at item
- Recommend rank accuracy
- Recommend novices
- User recommendation
- Predictive rating
- Source of rating
- SPSS text analysis of articles or books applying new approach to old research
- Insert comment into articles or additional piece of information
- See someone else's whole set of rankings
- Mapping anything tags with LC classification tags
- Tag with anything
- Colors
- Like experts (like "expects"?)
- User-supplied descriptive information
- Comment of review – was this review useful?
- Ranking rating
- Rating of: readability, clarity, usefulness, accuracy

Annotation

- Annotations in PDF files
- EndNote keywords (in citation management software)
    - Software – Zotero (file management)
- Subject folders on desktop with electronic note files in the folders
- Brackets if it is too much to underline
- Notes on personal copies of journals
- Authors name and keywords when saving file name
    - Filing system for articles conveys relevance – and his organizing by his system
- Code system – ex: letters for actions or subjects
        - A is for Alexandria
        - Q is for quotes

- - Numbering system
    - Author
- Margin notes
- Comments on annotations
    - Some annotations
    - Annotation on printed copy
    - Numbered with annotations
    - Own coding
- Handwriting important
- Assemble: cut and paste
- Types in (check mark) passage to reinforce memory and citation
- Annotate in the book
    - Bought so could mark
    - Features own check info
- Converting paper docs to pdf (ones used for students)
- 4 color pen – don't have a system for the colors
- New file on computer where write notes on each article "page such-and-such annotate this"
    - Highlight
- Underlining, exclamation marks, star,
- Colored post-it flags
    - Yellow – very important
    - Green – secondary
    - Pink – bibliography
    - Blue – quotation
    - Post it 3x5 card - > paper art used NES
    - Highlighters match post-its
- Separate spiral notebook for each project
    - Remembers which project by color of notebook
- Margin notes; "write in the margins when I disagree with something"
- File folders for each topic/class which would file relevant article and notes in
- Flag incomplete citations that need work

Selecting Resources

- Copy everything – save for later
- Trusted databases (2)
- Date – wanted "new"
- Journal title & author make up for "dated-ness"
- Abstract (3)
- Footnotes
- Skim article
- Only print after skimming
- "classic" (trusted author)
- Something unexpected & known
- Bibliography
- How much cited
- Combo of criteria (3)
- Title (2)
- "tier" of journals
- Author
- Wants to get smaller hit list with good stuff visible on top

Workarounds

Retaining info

- Flip between documents for citation info
- Remembering to open in new window to keep original referring site

Too much

- Periodic literature review vs daily
- Organization system for articles and research poor; starts over every 2 years with new computer only retrieves from old computer if needs something
- Visualization of subject
- Bibliography
- Amazon

Undesirable format

- Doesn't like to read online so will Borrow Direct to get print to read
- Xeroxing and printing and convert everything to pdf
- Not available online – go to physical volume

- Talking to library staff when went to wrong building used library to library deliver

Not enough info or wrong info

- Collocation of keyword and author
- Google -> Wikipedia
- Google -> Amazon
- Pulling up the Whole document to decide if it's relevant – because no citation available
- Ask librarian
- Abbreviations in indexes
- Found general area in catalog then physically select in stacks

Collection not in OPAC

- If she was looking for rare material, she would go straight to an archivist instead of looking online

Unavailability

- Professional society membership
- Colleagues
- Borrow direct
- Emails colleague (author) for paper when she can't get the full-text online
- Couldn't get article at Cornell so contact colleague at another university to photocopy

Bibliography

- To make the bibliography for his prospectus, he cuts and pasts from past bibliographies (boring and labor intensive)

Blackboard

- Blackboard no separate grade book
- Confluence vs Blackboard (more limited administration side)
- Was unable to insert link to article in Blackboard so just gave student citations and taught how to find articles

Limitation of system

- Catalog link instead of URL

Can't click to article

- To get a reference cut and paste cite from .pdf into Google Scholar then get it at Cornell, drill down if necessary

- Finding an article in an edited volume workaround: find someone who wrote in an edited volume
- Frequently used journals workaround: keep a physical list of call #s
- Would rather email people on his team than use confluence wiki (doesn't like the way it's set up)
- Email
- Sent email to person to get obscure article
- Nothing on web sent email to organization
- Known, trusted people, email them to get lead into a particular research topic

Too many hits

- Requery for precision
- Preliminary query – then reformulate if too many hits
- Memory (e.g. old professor's bib)

Didn't know how to construct a search

- Switch from library website to Google because not certain of how to search or construct search
- Basic search default to title rather than keyword (why uses google)
- Prefers Google ("The Cornell search engine might not be as efficient")
- Google Scholar instead of e-Journals
- Wastes time when he forgets to omit "the" from title search in the catalog
- Search for just title a article would rather search by journals
- Save files to desktop
- Search desktop
- Personal database
- Relocation of author and title by file name
- Renaming
- Google Scholar ("databases are more of a process")
- Used advanced keyword search because get more with advanced than basic (put word in wrong spot)
- Retrieving article order: department website, personal websites, library website
- Made a list of journals he uses constantly with the call #s for his desk so he doesn't have to search the catalog
- Spotlight on Google
- Google Scholar
- Google then Google Scholar then library
- Library card catalog not skilled at searching in online catalogue so don't find as much as browsing cards
- Workaround: faculty involved in what gets put in a library reading room so he/she knows to go there to look because she/he knows what's there in general

- Break repetition
- Took a break, couldn't find journal when came back it was there

Magic Wand Ideas

- Magic codes the data, more time to think
- Code my data, show me annotated bibliography
- Universal guidelines on interior layout
- Have all I need in the Classics reading room
- Know where to start when starting a new project
- Virtually browsable
- Screen recognize when I am stuck and make recommendations for me to be unstuck
- Library closet (like clueless closet) where books are shown (cover forward) while I sit looking at them
- Information Butler to keep track of all my research articles
- Google search overlap with library catalog
- Data database that types in criteria and it gives you
- Access to all unique, rare materials that I need at my desk
- I have a way to save all my materials into 1 digital library with keywords
- I do a search and all of the relevant interesting materials appear at the top
- 3-D immersive environment colorful
- Capture text + other info for my personal info system
- Organize results by subject field
- Scan a resource it imports + keywords + tell me how it would fit
- Instant access to all docs from 1774
- No one else is doing a similar project
- Better capabilities but no more changes in interface
- Write my paper/dissertation
- Tell me how complete my search is
- Find a needle in a haystack
- 20-40 articles that are most important
- Retrieve articles that jog new ideas
- Way to capture great ideas whenever you have one and integrate with research