

More than a Citation Manager

Zotero for scalable embedded librarianship
and instructional assessment

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What do students learn &
apply from instruction
sessions?

And how can Zotero help us
track & assess this?

What do students think about
Zotero as a communication
method?

Does a librarian in that space
work for them?

Citation management

The screenshot displays the Zotero citation management application. The interface is divided into several sections:

- Left Sidebar:** Contains a 'My Library' section with folders like 'Academia.edu', 'Calendar', 'Colonialism & Science', 'Completed Projects', 'Environment Collection Analysis', 'ENVS', 'InfoLit', 'Science Gallery', 'Taxonomy', 'ThresholdConceptsSTEM', 'Useful To Read', and 'ZoteroEmbedding'. Below these are 'Duplicate Items', 'Unfiled Items', and 'Trash'. A 'Group Libraries' section is also visible with 'Boulder Floods' and 'Climate Justice'.
- Central List:** A table of references with columns: Title, Creator, Year, Library Catalog, and Date Added. The selected item is 'Academic Embedded Librarianship: An Introduction' by Drewes and Hoffman, dated 2010, from Taylor and Francis+NEJM.
- Right Panel:** Provides details for the selected item, including its title, authors, abstract, publication information, volume, issue, pages, date, series, and series title.

Title	Creator	Year	Library Catalog	Date Added
11-796_resp_amcu_asta.authcheckdam...				12/13/13 2:04:03 PM
1985/1986 Boulder Survey of Historic Pl...	Christine Whitac...	1986		3/31/14 2:23:02 PM
2012-13 Curriculum Mapping Template...				12/13/13 2:01:39 PM
4 Questions for the Founder of Academ...				10/28/13 3:56:47 PM
A Boulder Timeline	Boulder History ...			2/12/14 12:24:04 PM
About a little thing called 750 Words				12/13/13 2:01:39 PM
Academia.edu: Social network or Acade...	Thelwall and Ko...	2014	Wiley Online Library	10/16/12 3:48:52 PM
Academia.edu: Social network or Acade...	Thelwall and Ko...	2014	Wiley Online Library	7/18/14 11:45:18 AM
Academia.edu: Social Network or Acad...	Thelwall and Ko...	2014	EBSCOhost	7/18/14 11:45:57 AM
Academic Embedded Librarianship: An ...	Drewes and Hof...	2010	Taylor and Francis+NEJM	7/18/14 10:29:06 AM
Academic Librarians are Stress Busters ...				11/14/13 5:24:21 PM
Academic library liaison programs in US...	Thull and Hansen	2009	Emerald Publishing	10/18/12 1:06:33 PM
A canonical response of precipitation c...	Lau et al.	2013	ISI Web of Knowledge	1/29/13 5:20:02 PM
Achieving transformative sustainability ...	Sipos et al.	2008	CrossRef	12/13/13 2:00:06 PM
Acknowledging the Racial State: An Ag...	Kurtz	2009	Wiley Online Library	8/3/11 12:52:10 PM
A conceptual framework for managing ...	Parsons et al.	2011	jis.sagepub.com	12/13/13 2:05:04 PM
A critical review of the methodology of ...	Pulido	1996		1/14/13 11:37:06 AM
A Critique of the Threshold Concept Hy...	O'Donnell	2010		12/13/13 2:04:03 PM
ACRL: if we are putting everything on t...				7/6/14 12:22:17 PM
Across East African glaciers: an account...	Meyer	1891	colorado.edu Library Ca...	3/27/14 5:46:44 PM
A cultural history of modern science in ...	Elman	2006	Open WorldCat	2/20/13 10:27:10 AM
A cycle of eighteen years in the seasons...	Howard	1842	colorado.edu Library Ca...	8/14/13 4:02:10 PM
Adapting to flood risk under climate ch...	Wilby and Keenan	2012	ppg.sagepub.com	2/20/13 2:37:46 PM
Adaptive origins evolution and human ...	LaFreniere	2010	Open WorldCat	12/13/13 2:00:06 PM
Adding an Extra Helping of Service Whe...	Chesnut et al.	2010	ProQuest	10/10/12 11:59:07 AM
				11/17/13 2:10:46 PM

Item Type: Journal Article

Title: Academic Embedded Librarianship: An Introduction

Author: Drewes, Kathy

Author: Hoffman, Nadine

Abstract: Although embedded librarianship has received recent attention, it has not been well-defined within academic literature. This article defines academic embedded library services and identifies some key factors of successful programs with emphasis on communication and collaboration. The history of the term "embedded librarianship," has its roots in branch libraries, and the methods librarians use to provide service to their users in person and online are discussed.

Publication: Public Services Quarterly

Volume: 6

Issue: 2-3

Pages: 75-82

Date: 2010

Series:

Series Title:

Series Text:

Journal Abbr:

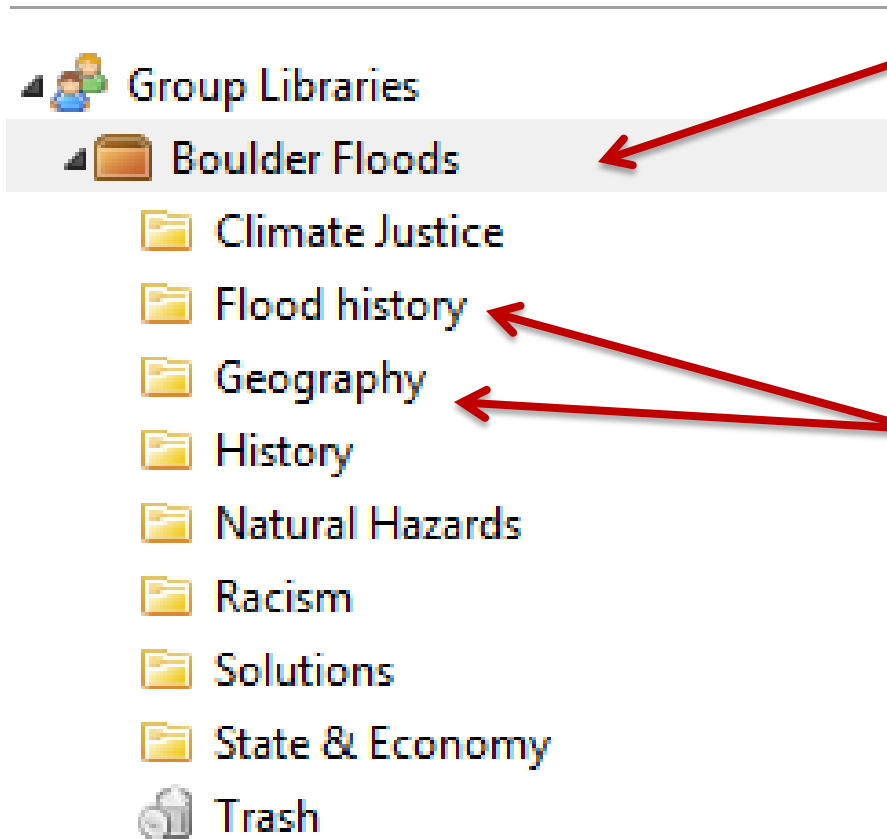
Why use Zotero to embed?

- Low time cost
- Communication via a tool valuable for its own sake
- Circumvents institutional barriers to librarian presences in course management systems

Why use Zotero for assessment?

- Formative assessment throughout the course
- Summative assessment at the end of the course
- Quick, easy ways to visualize source information

Setting Up



Group Library collection members: Students, instructor, librarian

Subfolder for each student project

Outcome: Use Zotero to manage resources effectively

Actions

Save and share material to the group library

Use Zotero to create citations

Use Zotero for other research

Outcome: Use a wide range of appropriate sources

Actions

Add a variety of source types to the group library

Use source types that match the research question

Outcome: Efficiently obtain resources

Actions

Use recommended databases to discover resources

Search within relevant journals

Use Find it at CU

Outcome: Understand that research is iterative

Actions

Add resources over time

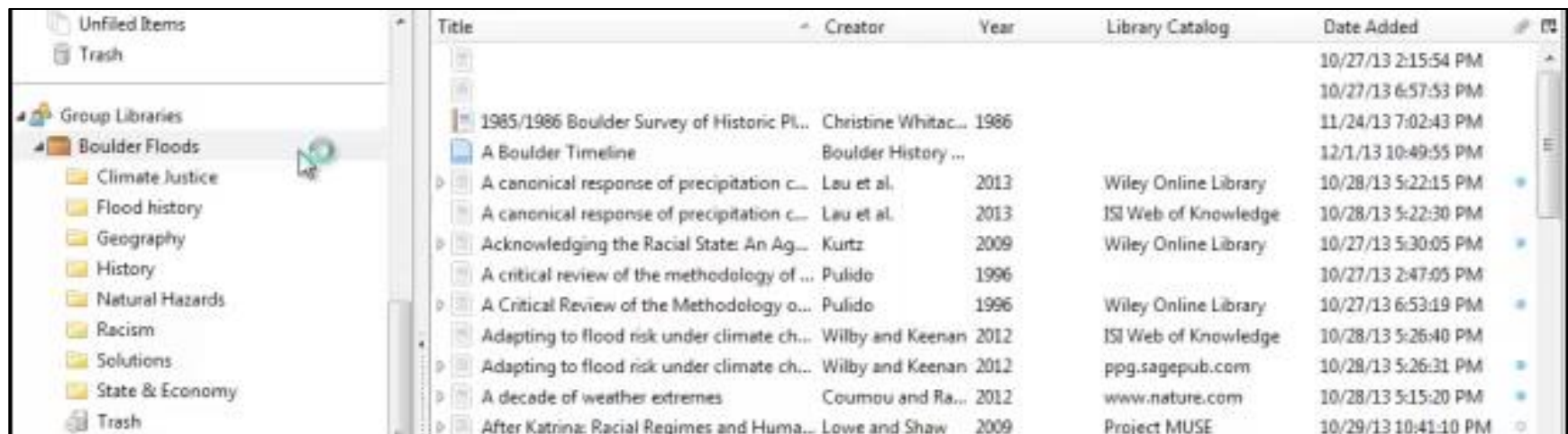
Use sources that span time periods

Tools for assessment

- Snapshot of research at a particular moment
- Sort and order sources within the folder
- Zotero Timeline
- Export to Excel
- Paper Machines

Quick snapshot

Use Zotero to manage resources effectively



The screenshot displays the Zotero desktop application. On the left, a sidebar shows a hierarchy of libraries: 'Unfiled Items', 'Trash', and 'Group Libraries'. Under 'Group Libraries', the 'Boulder Floods' library is selected, revealing a list of sub-folders: 'Climate Justice', 'Flood history', 'Geography', 'History', 'Natural Hazards', 'Racism', 'Solutions', 'State & Economy', and another 'Trash' folder. The main pane on the right shows a list of items within the 'Boulder Floods' library. The list is organized into columns: 'Title', 'Creator', 'Year', 'Library Catalog', and 'Date Added'. The items include a 1986 survey by Christine Whitac..., a timeline by Boulder History..., and several articles on climate change and flood risk from 2012 and 2013, sourced from Wiley Online Library, ISI Web of Knowledge, ppg.sagepub.com, www.nature.com, and Project MUSE.

Title	Creator	Year	Library Catalog	Date Added
				10/27/13 2:15:54 PM
				10/27/13 6:57:53 PM
1985/1986 Boulder Survey of Historic Pl...	Christine Whitac...	1986		11/24/13 7:02:43 PM
A Boulder Timeline	Boulder History ...			12/1/13 10:49:55 PM
A canonical response of precipitation c...	Lau et al.	2013	Wiley Online Library	10/28/13 5:22:15 PM
A canonical response of precipitation c...	Lau et al.	2013	ISI Web of Knowledge	10/28/13 5:22:30 PM
Acknowledging the Racial State: An Ag...	Kurtz	2009	Wiley Online Library	10/27/13 5:30:05 PM
A critical review of the methodology of ...	Pulido	1996		10/27/13 2:47:05 PM
A Critical Review of the Methodology o...	Pulido	1996	Wiley Online Library	10/27/13 6:53:19 PM
Adapting to flood risk under climate ch...	Wilby and Keenan	2012	ISI Web of Knowledge	10/28/13 5:26:40 PM
Adapting to flood risk under climate ch...	Wilby and Keenan	2012	ppg.sagepub.com	10/28/13 5:26:31 PM
A decade of weather extremes	Coumou and Ra...	2012	www.nature.com	10/28/13 5:15:20 PM
After Katrina: Racial Regimes and Huma...	Lowe and Shaw	2009	Project MUSE	10/29/13 10:41:10 PM

Sort & order sources

Use a wide range of appropriate resources

Efficiently obtain resources

The screenshot displays the Zotero library manager interface. On the left, a sidebar shows a hierarchy of libraries, including 'Group Libraries' and 'Boulder Floods'. The main pane lists research papers with columns for Title, Creator, Year, Library Catalog, and Date Added. A context menu is open over the 'Date Added' column, showing options like 'Title', 'Creator', 'Item Type', 'Date', 'Publisher', 'Publication', 'Date Added', 'Date Modified', 'Extra', 'Attachments', 'Notes', 'More Columns', 'Secondary Sort (Title)', and 'Restore Column Order'. The 'Date Added' option is selected. On the right, a panel shows details for a selected item, including 'Item Type: Journal Article' and a snippet of the abstract.

Title	Creator	Year	Library Catalog	Date Added
A canonical response of precipitation c...	Lau et al.	2013	Wiley Online Librar	10/28/13 5:27:34 PM
A canonical response of precipitation c...	Lau et al.	2013	ISI Web of Knowlec	10/28/13 5:10:08 PM
Adapting to flood risk under climate ch...	Wilby and Keenan	2012	ISI Web of Knowlec	10/28/13 5:17:08 PM
Adapting to flood risk under climate ch...	Wilby and Keenan	2012	ppg.sagepub.com	10/28/13 5:25:19 PM
A decade of weather extremes	Coumou and Ra...	2012	www.nature.com	10/28/13 5:25:31 PM
Attribution of observed surface humidit...	Willett et al.	2007	www.nature.com	10/28/13 5:30:48 PM
Attribution of observed surface humidit...	Willett et al.	2007	ISI Web of Knowlec	10/28/13 5:29:26 PM
Balance as bias: global warming and th...	Boykoff and Boy...	2004	ISI Web of Knowlec	10/28/13 5:29:32 PM
Changes in Flood Risk under Global Wa...	Okazaki et al.	2012	J-Stage	
Changes in Flood Risk under Global Wa...	Okazaki et al.	2012	ISI Web of Knowlec	
Changing social contracts in climate-ch...	Adger et al.	2013	www.nature.com	
Climate change - Equity and greenhous...	Baer et al.	2000	ISI Web of Knowlec	
Climate justice is not just ice	Forsyth		ScienceDirect	
COMMENTARY: Limits to adaptation	Dow et al.	2013	ISI Web of Knowlec	
Constraints on future changes in climat...	Allen and Ingram	2002	www.nature.com	
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Does global warming favour the occur...	Wilhelm et al.	2012	ISI Web of Knowlec	
Does global warming favour the occur...	Wilhelm et al.	2012	link.springer.com	
Equity, environmental justice and sustai...	Ikeme	2003	ISI Web of Knowledge	
How is the frequency, location and seve...	Goodess	2013	ScienceDirect	
How much do precipitation extremes c...	Shiu et al.	2012	Wiley Online Library	
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Public Understanding of Climate Chang...	Capstick	2013	CrossRef	
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Title	Creator	Year	Library Catalog	Date Added	
The South-Central U.S. Flood of May ...	Lackmann	2013	CrossRef	10/28/13 5:19:01 PM	
Constraints on future changes in clim...	Allen and Ingram	2012	ISI Web of Knowledge	10/28/13 5:35:10 PM	
Climate change - Equity and greenho...	Baer et al.	2000	ISI Web of Knowledge	10/28/13 4:03:40 PM	
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Attribution of observed surface humi...	Willett et al.	2007	ISI Web of Knowledge	10/28/13 5:32:36 PM	
Changes in Flood Risk under Global W...	Okazaki et al.	2012	J-Stage	10/28/13 5:23:30 PM	
Does global warming favour the occu...	Wilhelm et al.	2012	link.springer.com	10/28/13 5:27:34 PM	
Adapting to flood risk under climate c...	Wilby and Keenan	2012	ppg.sagepub.com	10/28/13 5:26:31 PM	
Climate justice is not just ice	Forsyth		ScienceDirect	10/28/13 4:05:02 PM	
How is the frequency, location and se...	Goodess	2013	ScienceDirect	10/28/13 5:17:08 PM	
Urban justice and sustainability	Fujita	2009	Taylor and Francis+ NEJM	10/28/13 4:06:45 PM	
A canonical response of precipitation ...	Lau et al.	2013	Wiley Online Library	10/28/13 5:22:15 PM	
How much do precipitation extremes ...	Shiu et al.	2012	Wiley Online Library	10/28/13 5:25:19 PM	
Changing social contracts in climate-...	Adger et al.	2013	www.nature.com	10/28/13 5:13:20 PM	
Constraints on future changes in clim...	Allen and Ingram	2002	www.nature.com	10/28/13 5:35:00 PM	
A decade of weather extremes	Coumou and Ra...	2012	www.nature.com	10/28/13 5:15:20 PM	
Limits to adaptation	Dow et al.	2013	www.nature.com	10/28/13 5:30:48 PM	

Zotero timeline

Use a wide range of appropriate resources

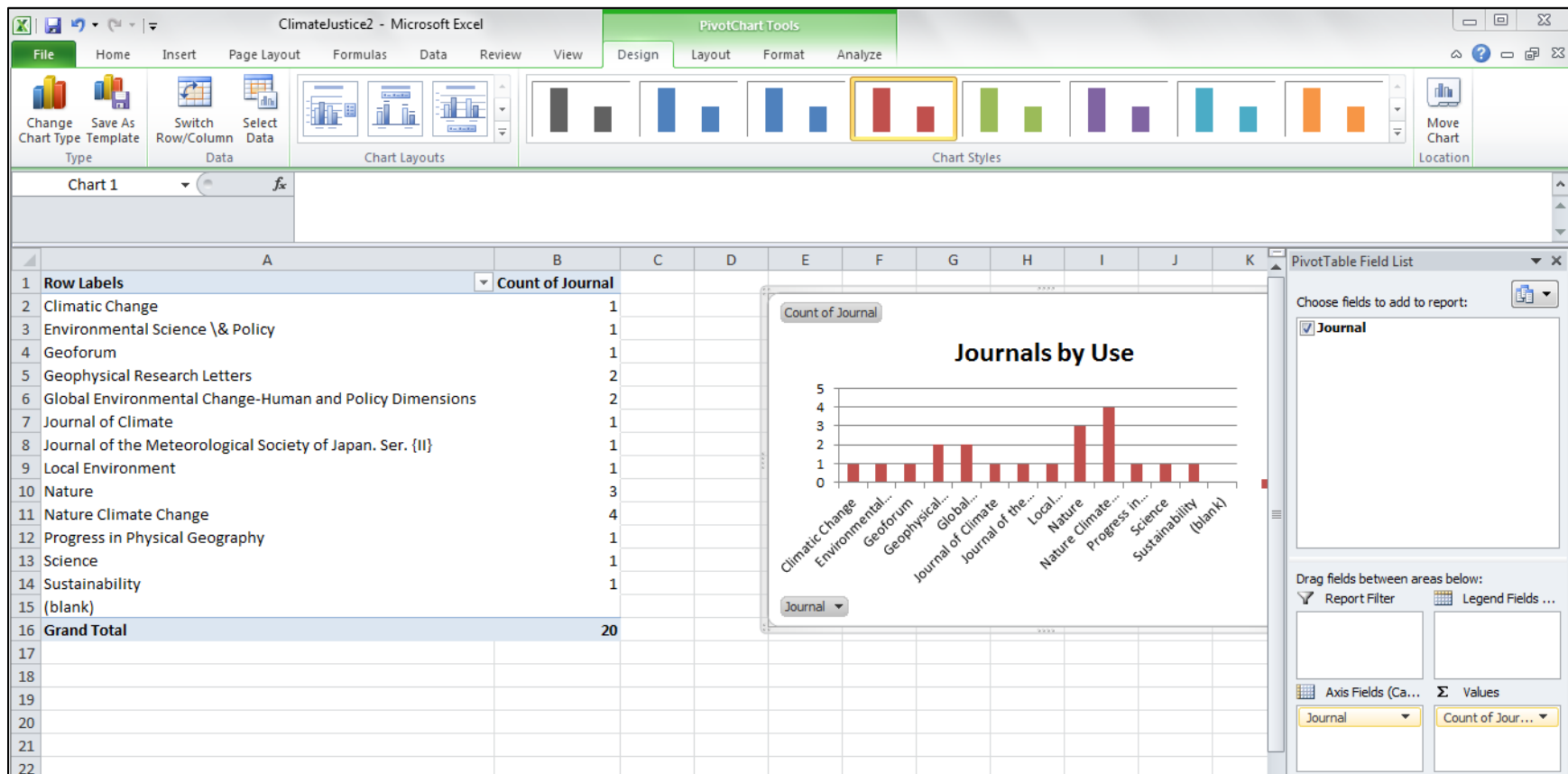
Understand that research is iterative



Zotero to Excel

Use a wide range of appropriate resources

Efficiently obtain resources



Export collection to BibTeX>Open in JabRef>Export as .csv>Open & explore

Use a wide range of appropriate resources

Paper Machines plugin



“It is helpful to look at what other students have to say.”

“Any help I could get is awesome, as long as they labeled that it was their comments and not mine...”

“...having librarian/instructor access would be super helpful rather than having to deal with emails, etc.”

“It would be really useful to
work directly through zotero
rather than through email :)”

“It might depend on whether I have met the people who are commenting.”

“I might want a folder that only I have access to, but group folders are useful for sharing info”

Changing Instruction

- Focus on public/private capacities of Zotero
- Schedule second session earlier to reinforce idea of iterative research
- Earlier instruction on finding data, government reports and grey literature

References

- Crymble, Adam. 2013. “Review of Paper Machines, Produced by Chris Johnson-Roberson and Jo Guldi.” *Journal of Digital Humanities*.
<http://journalofdigitalhumanities.org/2-1/review-papermachines-by-adam-crymble/>.
- Cruz, Belén. 2014. “How to Export from Zotero to Excel.” Accessed July 13.
<http://belencruz.com/2014/03/how-to-export-from-zotero-to-excel/>.