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Publishing Undergraduate Research: What Could Possibly Go Wrong?

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Intro:
- What we should and should not be concerned with in terms of online and open undergraduate research.
- How we should shift discussion from fear to support
- Students, scholars, researchers, and publishing programs can reap the benefits of digital scholarship as we support advocacy and education in digital citizenship

Aside: images (non-undergrad research) credited at the end of the presentation illustrate some of the things you can be afraid of instead.
Scholarship@Claremont <scholarship.claremont.edu> is the Claremont Colleges’ institutional repository and publishing platform.

The Claremont Colleges are made up of five liberal arts undergraduate colleges and 2 graduate universities with one library to service them all.

Two of the colleges, the Environmental Analysis Program, and one mathematics department mandate senior thesis deposit into the IR.

Three of the colleges, two of which mandate senior thesis deposit, share a sciences department, the Keck Science Department. KSD seniors *were* exempt for deposit because they often work on faculty research. Last year one of those colleges decided that for their WASC accreditation, they needed all senior theses included in the IR.

https://www.flickr.com/photos/internetarchivebookimages/14779981754/
FIVE, undergraduate journal – editors are librarians and reviewed by librarians and faculty. [http://scholarship.claremont.edu/five/](http://scholarship.claremont.edu/five/)

URCEU is an undergraduate conference journal from Scripps College, undergraduates from across the country submit papers and the best papers are submitted to the conference journal. [http://scholarship.claremont.edu/journals/urceu](http://scholarship.claremont.edu/journals/urceu)

The Claremont Colleges Library undergraduate research prize is also in the IR. The prize focuses on the research process, students are nominated by faculty, and submissions are reviewed by faculty and librarians. [http://scholarship.claremont.edu/library_research_award/](http://scholarship.claremont.edu/library_research_award/)
Expectations are changing about who is creating new knowledge and where they are creating it. This change is happening faster than it is realized by educators. Condis talks about scholars being expected to make their research available online and that this is valuable turn of events. Condis writes about inviting students into the online scholarly conversation. I would argue that they are already there and we’re past that point of invitation. It’s time to move forward and meet digital literacy educational needs. We should be thinking not only about the public intellectual, but the digital citizen.
Librarians have been talking about this shift for a while now. The shift and subsequent need for education has become especially apparent to those who stand with one foot in scholarly communication and the other in information literacy.

http://crl.acrl.org/content/70/3/235.full.pdf+html
What are these fears that we should be transforming?
Digital footprint > digital citizenship > online reputation

The digital footprint concept elicits the most disconnected and misguided fear. We’ve established that students are already living online in some form or another. They should be educated on how to shape their online reputation and to be upstanding digital citizens, and on what should be private and what should be visible. Students are being told to lock down senior these and not have a digital footprint, when instead, they should be learning about why it is important to curate their online reputation.

K-12 educators are talking about digital citizenship in terms of privacy, safety, and cyber bullying. This education drops off abruptly in higher education. Digital citizenship – they are going to be online but how?

EAP theses improved since students are aware of being online and are getting support around these issues of digital citizenship. Faculty scholarship and data are often hidden behind a paywall, but this is changing with funder mandates and awareness of the benefits of visibility. Senior theses are expected to be the culminating scholarship of the undergraduate educational experience. Often there is no example of the education students receive other than the diploma; there is no curated and visible evidence. This is a missed opportunity for all.

Double: zanzo CC-BY-NC flic.kr/p/4bL9G7
Students listen to their faculty (as they should), but this is where they get a lot of their fears. Some students are afraid of posting their thesis online but then have damaging pictures or posts visible for the world, and hiring managers, to see. I am contacted by more students asking me to hurry up and post their thesis so that they can use it for job and grad school applications.
Both faculty and students are confused about copyright.

Faculty advisors and readers are not thinking about where this piece of scholarship is ending up – online

IRB are often not connecting the shifts in online scholarship and undergraduate research.

Our faculty utilize undergraduate assistants on their research and this means that their research takes a lot longer to reach the publication stage because of the novice researcher skills and turn-over of their undergraduate assistant pool. This also creates opportunities for research data management education.
There is a connection between instruction librarians, liaison librarians, subject specialists, collections, etc. Integration into the pedagogy.

Howard Gardner is an educator from the Harvard School of Education and talks about digital citizenship for K-12 in a way that directly relates to higher education and what we know as librarians.

Gardner scaffolds these concepts by grade in such a way that it could be applied to first year, sophomore, junior, and senior information literacy instruction.

https://www.commonsensemedia.org/educators/digital-citizenship
https://flic.kr/p/i6tajK

"Feudal Tales, being a collection of romantic narratives and other poems. [With coloured plates.]" British Library on Flickr No known copyright restrictions
https://www.flickr.com/photos/statelibraryofnsw/6687207657/

There are opportunities for faculty, educators, library publishers, and for librarians across the divisional roles to meet this growing need for digital scholarship education and support.
Don’t get yourself into an unpleasant situation, one advocate will not work! Wide scale intentional and integrated education and advocacy is key.

“"The Land of the Lion; or, Adventures among the wild animals of Africa. With ... illustrations” The British Library on Flickr
https://www.flickr.com/photos/britishlibrary/11113035995/
Theses and dissertations guide that addresses related aspects of digital citizenship is linked to on registrar pages and discussed by instruction librarians.
1. Claremont McKenna College Registrar’s senior thesis instruction page links to instructions and educational materials around copyright and online scholarship from the library.

2. The back end HTML that creates the click-through submission agreement the student agrees to when submitting a senior thesis or undergraduate research.
Undergraduates are online and part of the scholarly conversation. Most access requests for IP restricted senior theses are from students, grad students, scholars, and researchers from around the world.

**Claremont-UC Undergraduate Research Conference on the European Union** *(Journals at Claremont)* [http://scholarship.claremont.edu/urceu/vol2011/iss1/11/](http://scholarship.claremont.edu/urceu/vol2011/iss1/11/)

CMC senior thesis and top downloaded item of all time in the repository
[http://scholarship.claremont.edu/cmc_theses/513/](http://scholarship.claremont.edu/cmc_theses/513/)

FIVE: [http://scholarship.claremont.edu/five/vol2/iss1/3/](http://scholarship.claremont.edu/five/vol2/iss1/3/)
Google search on student name reveals model digital footprint
Go into classes, information literacy, partner with faculty and departments
Undergraduate Research

ADDRESS GAPS IN UNDERSTANDING

• Copyright
• Privacy
• Who is producing scholarship and where
• The Digital Footprint
• Responsibility and accountability

REAP BENEFITS OF PUBLISHING

• Future citizens – critical thinkers & intentional creators
• Positive visibility for the student, the faculty, and the institution
• Relationship building with faculty > advocates for OA & rights
• Valued library partnerships

#ethicsininformation
So, I hope that you help your undergraduates and educators navigate the digital citizenship waters without fear! Look for the opportunities, address the concerns, and avoid misplaced fears.

https://flic.kr/p/21u3i
Andrew Kuchling Flickr CC-BY
Slide Credits


3. FIVE: The Claremont Colleges Journal of Undergraduate Academic Writing http://scholarship.claremont.edu/five/


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12. The Land of the Lion; or, Adventures among the wild animals of Africa. With ... Illustrations. The British Library on Flickr https://www.flickr.com/photos/britishlibrary/11113035995/

   Claremont McKenna College Registrar’s Senior Thesis page
   https://www.cmc.edu/thesis

    Merchant, K. http://scholarship.claremont.edu/cmc_theses/513/
    Brill, A. and Green, R. http://scholarship.claremont.edu/five/vol2/iss1/3/