

ETDs & the Landscape of Open Access Publishing

Gail McMillan
Director, Scholarly Communication
Professor, University Libraries, Virginia Tech

Kennesaw State University, April 1, 2016



<http://vtechwork.lib.vt.edu>

Goals of Traditional Theses and Dissertations

- Original research
- Original contribution to scholarship
- Continuing contribution to scholarship
- Writing ability

Virtual Reality for Sport Training

Cheryl A. Stinson

*Thesis submitted to the faculty of the Virginia Polytechnic Institute and State University
in partial fulfillment of the requirements for the degree of*

Master of Science
In
Computer Science and Applications

Doug A. Bowman, Chair
Denis Gracianin
Thomas H. Ollendick

May 3, 2013
Blacksburg, VA

Keywords: Virtual reality, sport psychology, sport biomechanics


Plus Goals of ETDs


- Discoverable
- Integrity of content
 - Readable or viewable into the future
 - Non-proprietary formats
- Data behind graphs, charts, and conclusions


Virtual Reality for Sport Training





View/Open

 Stinson_CA_T_2013.pdf (7.7 51Mb)

 Supporting documents (1.03 6Mb)

 Supporting documents (16.2 2Mb)

 Supporting documents (10.0 4Mb)

 Supporting documents (13.5 0Mb)

Date

2013-06-07

Author

Stinson, Cheryl Ann

Virtual reality (VR) has been successfully applied to a broad range of training domains; however, to date there is little research investigating its benefits for sport training. In this work we investigated the feasibility and usefulness of using VR for two sport subdomains: sport psychology and sport biomechanics. In terms of sport psychology training, high-fidelity VR systems could be used to display realistic 3D environments to induce anxiety, allowing resilience-training systems to prepare athletes for real-world, high-pressure situations. For sport biomechanical training, we could take advantage of the 3D tracking available in VR systems to capture and display full-body movements in real-time, and could design flexible 3D environments to foster a valuable and engaging training experience.

To address using VR for sport psychology training, in this work we present a case study and a controlled experiment. Our work addresses whether a VR system can induce anxiety in participants, and if so, how this anxiety impacts performance, and what the implications are for VR system design.

To address using VR for sport biomechanical training, in this work we present a case study describing the development of a VR-based jump training application. Our work addresses whether an effective VR biomechanical training system can be achieved using standard computer equipment and commodity tracking devices, and how we should design the user experience of a VR sport training system to effectively deliver biomechanical principles.

URI

<http://hdl.handle.net/10919/23179>

Trending: Manuscript or Composite ETDs

Entrainment of Bacterial Synthetic Oscillators using Proteolytic
Queueing and Aperiodic Signaling

Philip Hochendoner

Dissertation submitted to the Faculty of the
Virginia Polytechnic Institute and State University
in partial fulfillment of the requirements for the degree of

Doctor of Philosophy
in
Physics

William Mather, Chair
Michel Pleimling
Hans Robinson
Shengfeng Cheng

December 1, 2015
Blacksburg, Virginia

Keywords: Biophysics, Synthetic Biology, Entrainment, Queueing
Copyright 2015, Philip Hochendoner

- Publish original work first
- Create a cohesive research stream
- Pull it all together in the dissertation

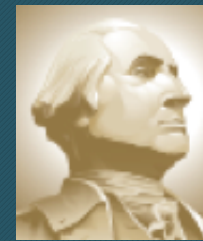
Chapter 4

Entrainment of synthetic gene oscillators by a noisy stimulus

Reprinted with permission from [21] with minor changes to fit submission formatting. Copyright 2015 American Chemical Society.

University Mission Statements

- “Disseminate knowledge”

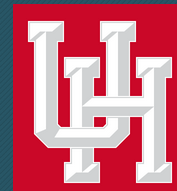


- “Free exchange of ideas”



- “Advancement of society through... development of new knowledge”

- “A knowledge resource to the public”

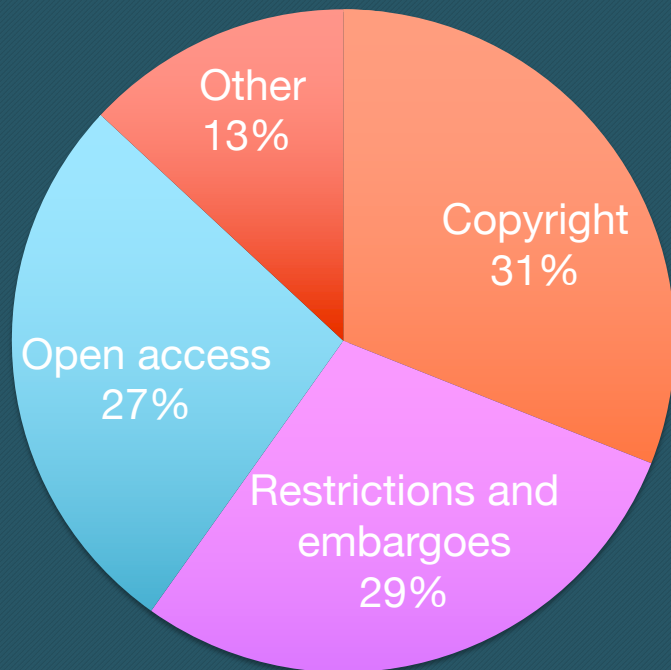


How are universities meeting these goals?

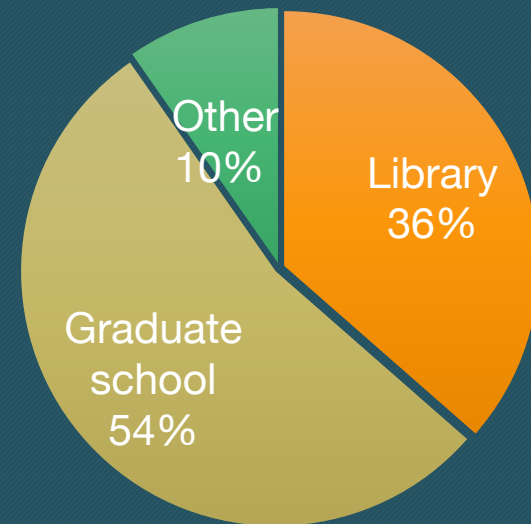
- 2015 ETD Survey
 - 298 institutions
 - 85% more than 2013
 - 75% N. America
 - 72% only accept ETDs
 - 52% mandatory for all applicable PhD and Masters programs



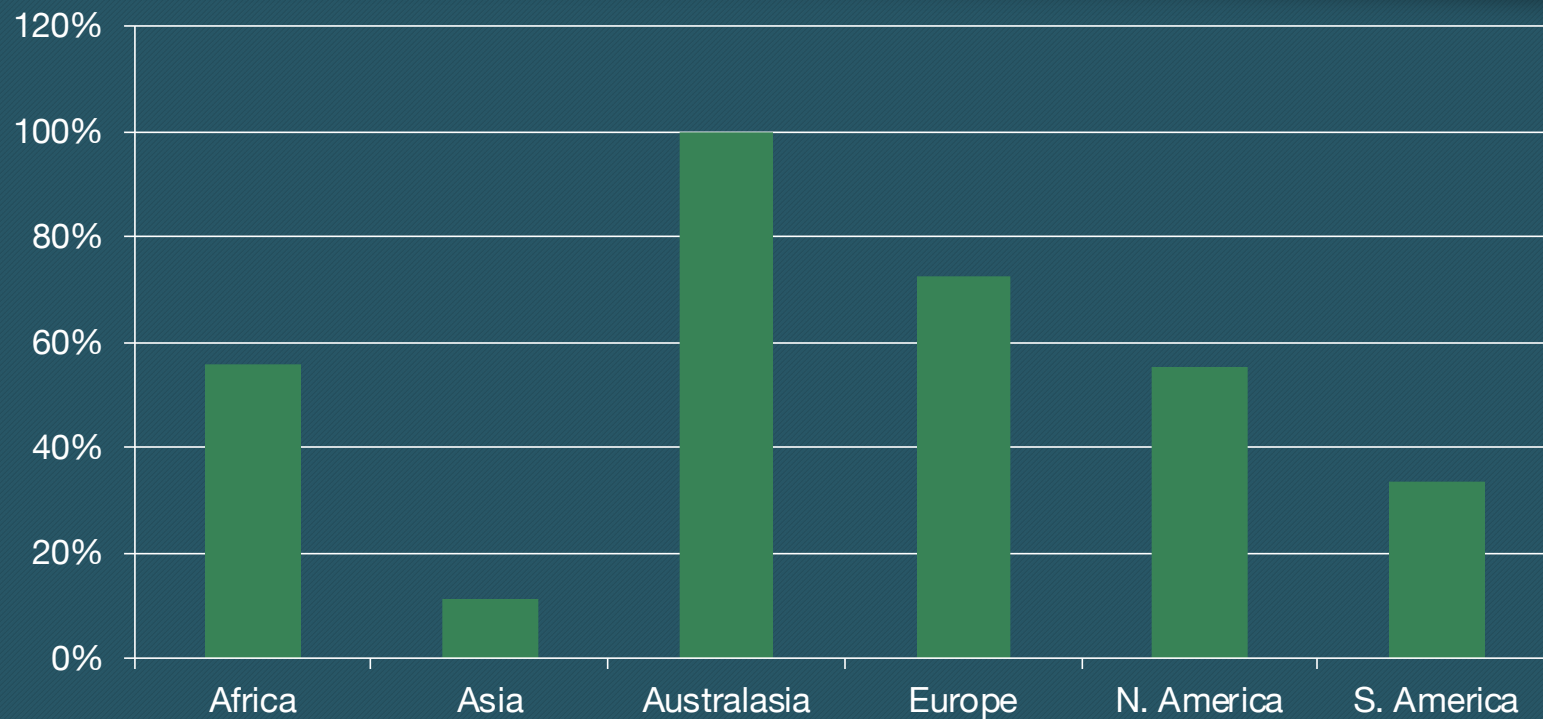
Training Graduate Students



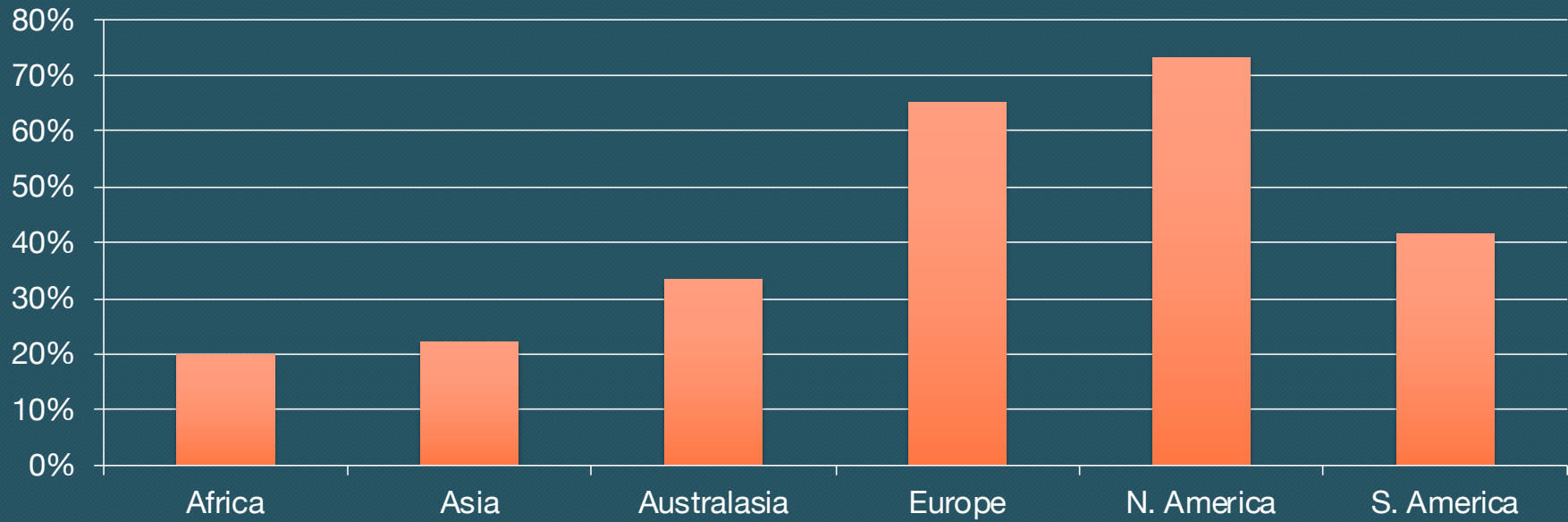
North America only



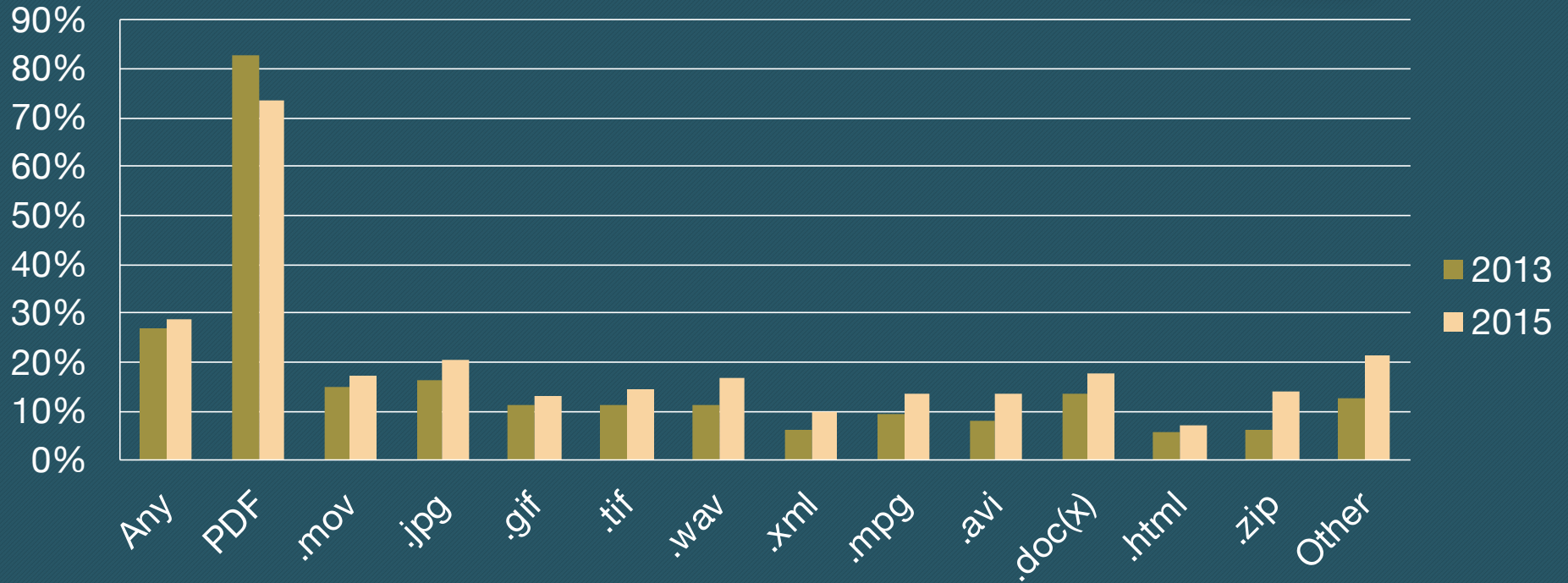
Authors include published articles, etc. in ETDs



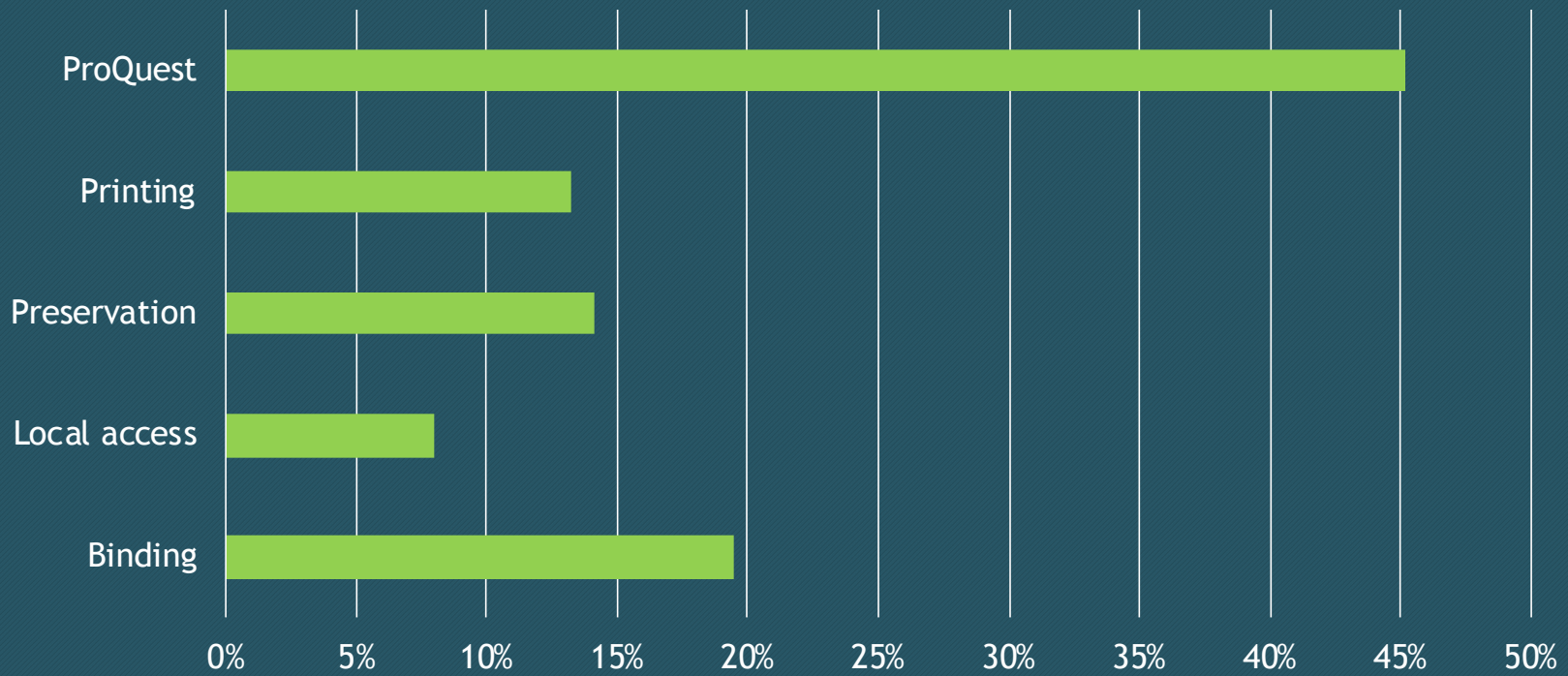
ETD authors also submit supplemental files,
e.g., data, etc.



ETDs include a variety of file formats



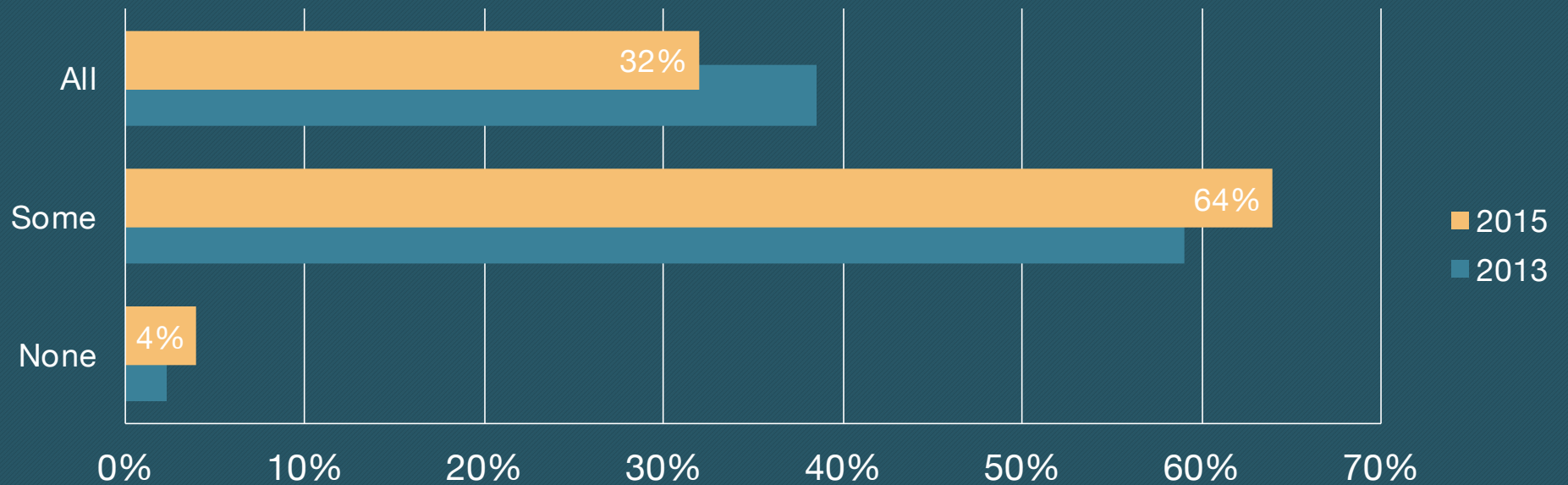
ETD Fees



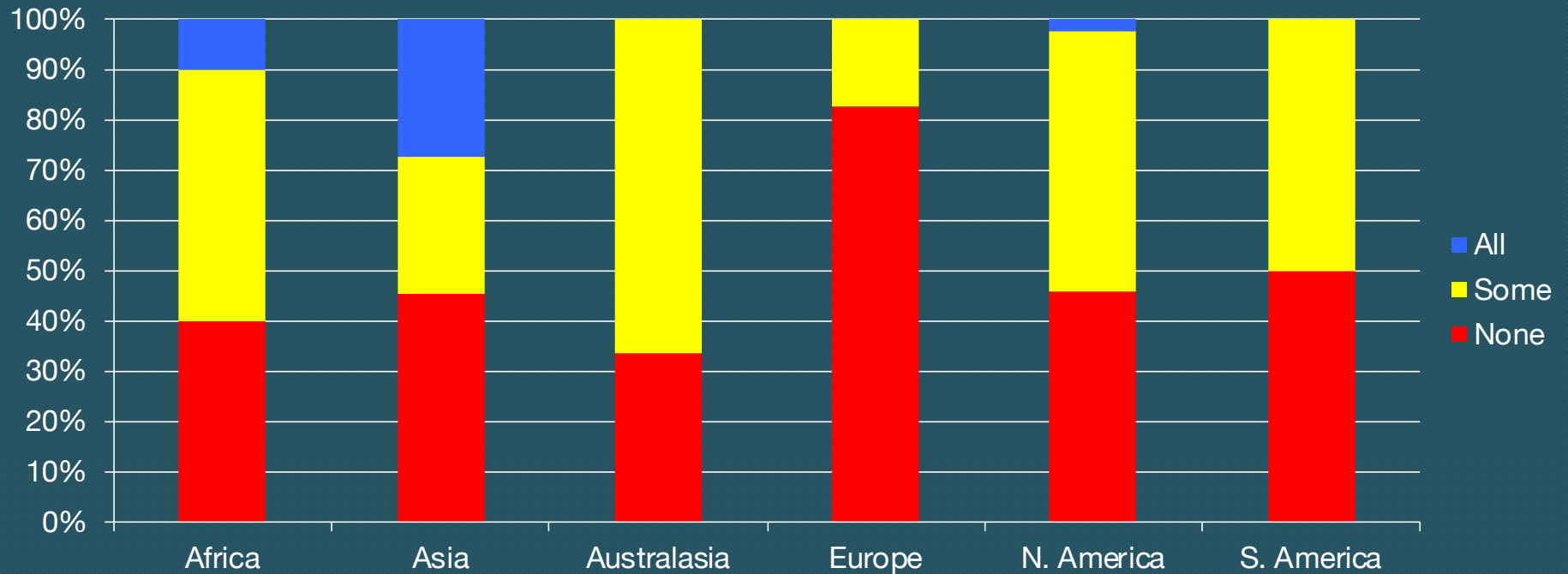
Access to Your ETD

- **Worldwide Access**
 - Available to the public **immediately** through university IR
- **University-only**
 - Available only to current university community **for 1 Year**
- **Secured** (withheld, embargoed)
 - ETD held in a dark archive **for 1 year**

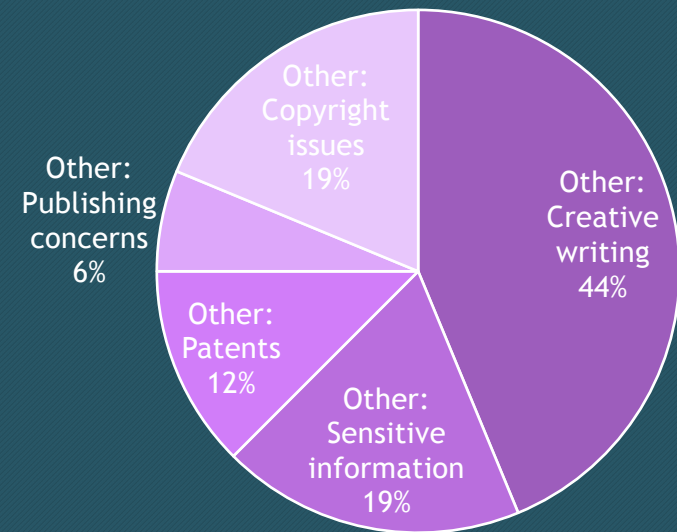
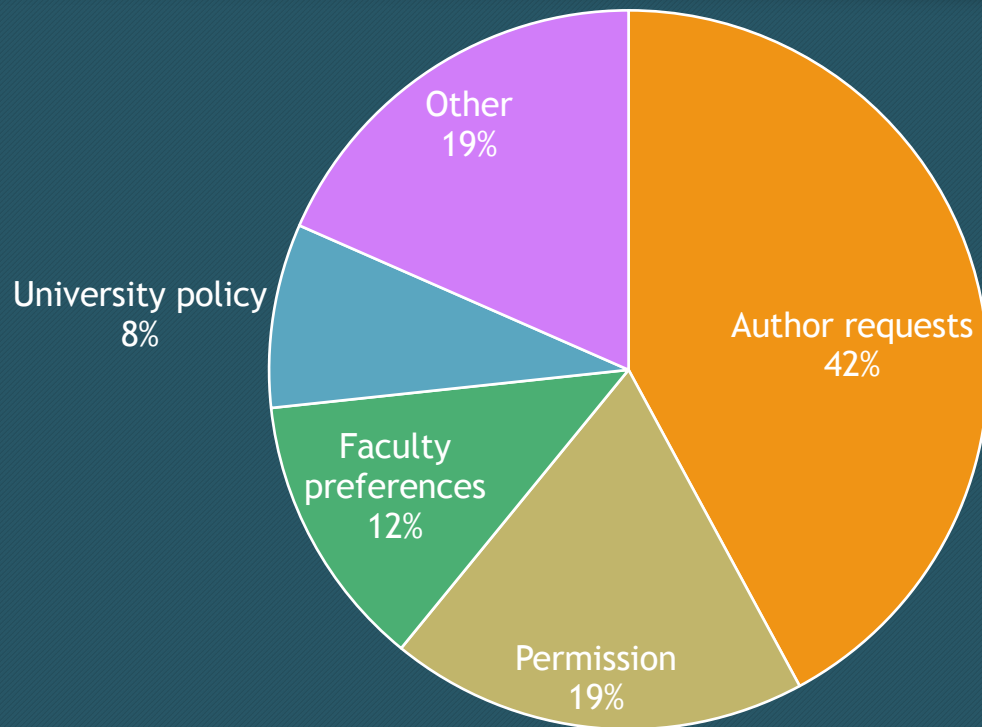
ETDs are publicly available



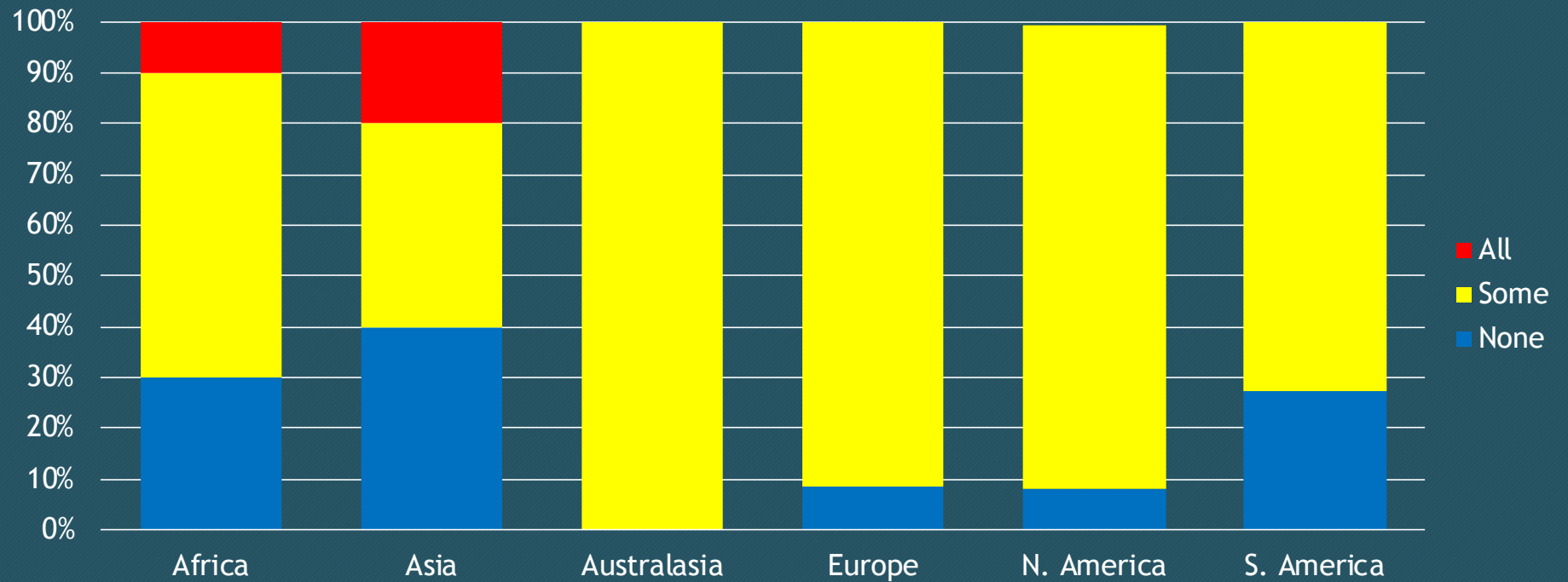
ETDs have university-only access



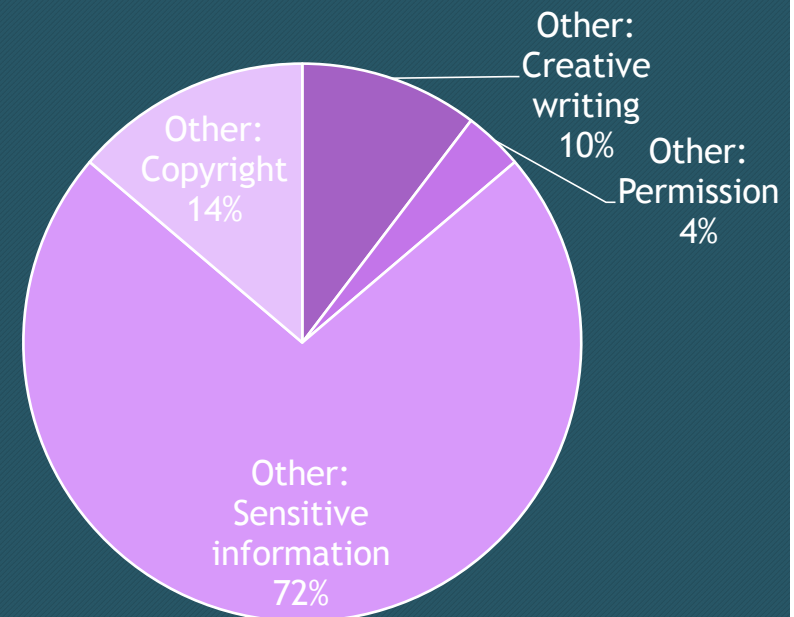
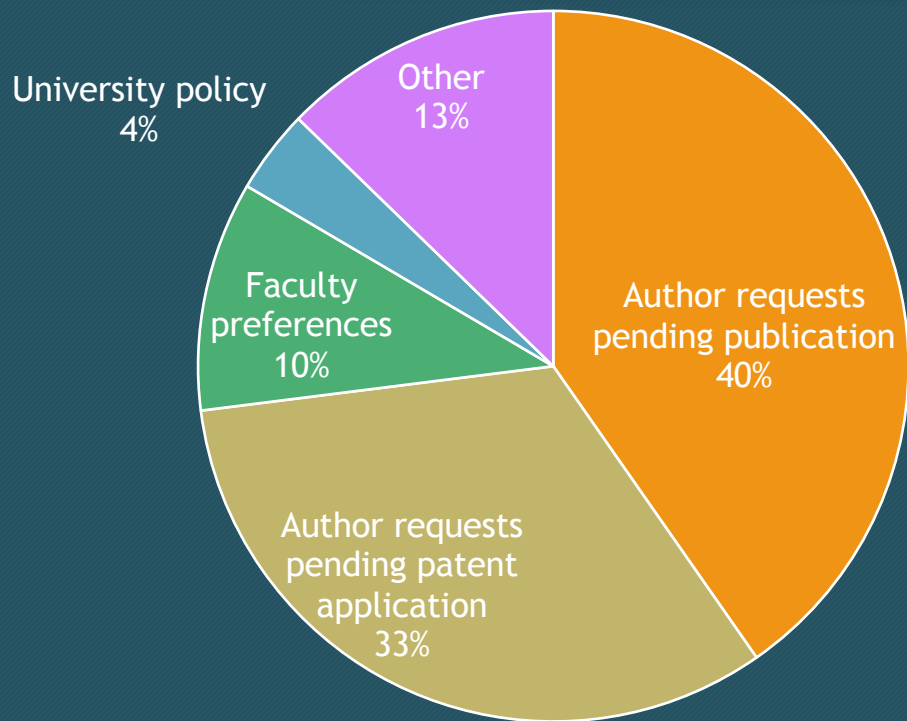
Reasons for restricting access to ETDs



ETDs are withheld—inaccessible, secured, etc.



Reasons for Withholding Access to ETDs



Anxieties, trepidation, fears

- Association of Writers and Writing Programs
 - University access to abstracts only
- American Historical Association
 - 6 year restricted access
- “This assertion is contradicted by research”
 - Audrey Truschke, Andrew W. Mellon Postdoctoral Fellow, Stanford University

<http://dissertationreviews.org/archives/>

- **Open Access and Dissertation Embargoes**
 - Published yet Unpublished: The Dual Rise of Open Access and Dissertation Embargoes /11861
- **Publishing a Revised Dissertation**
 - Defusing the Fear: Publishing A Book Based on a Non-Embargoed Dissertation /11904
- **To Embargo Your Dissertation, or Not?**
 - To Embargo or Not to Embargo? Strategically Disseminating The Dissertation /11995

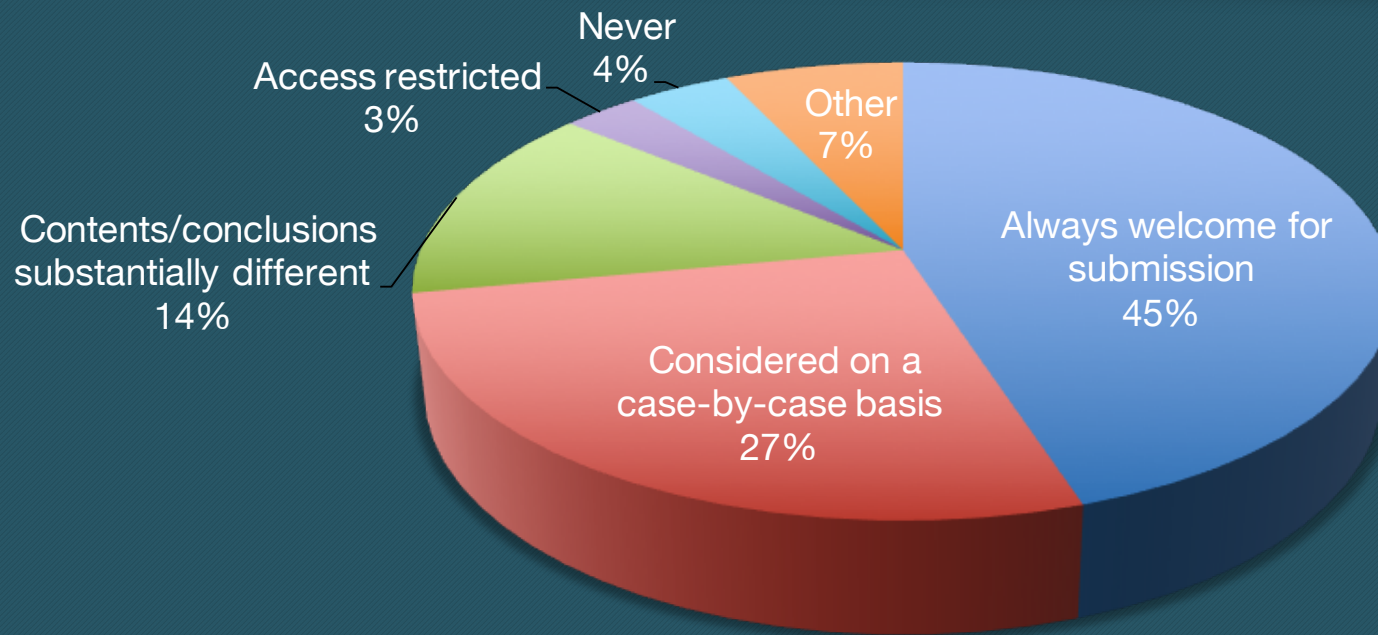
Audrey Truschke: audrey.truschke@gmail.com
Andrew W. Mellon Postdoctoral Fellow, Stanford University

Data tell a different story

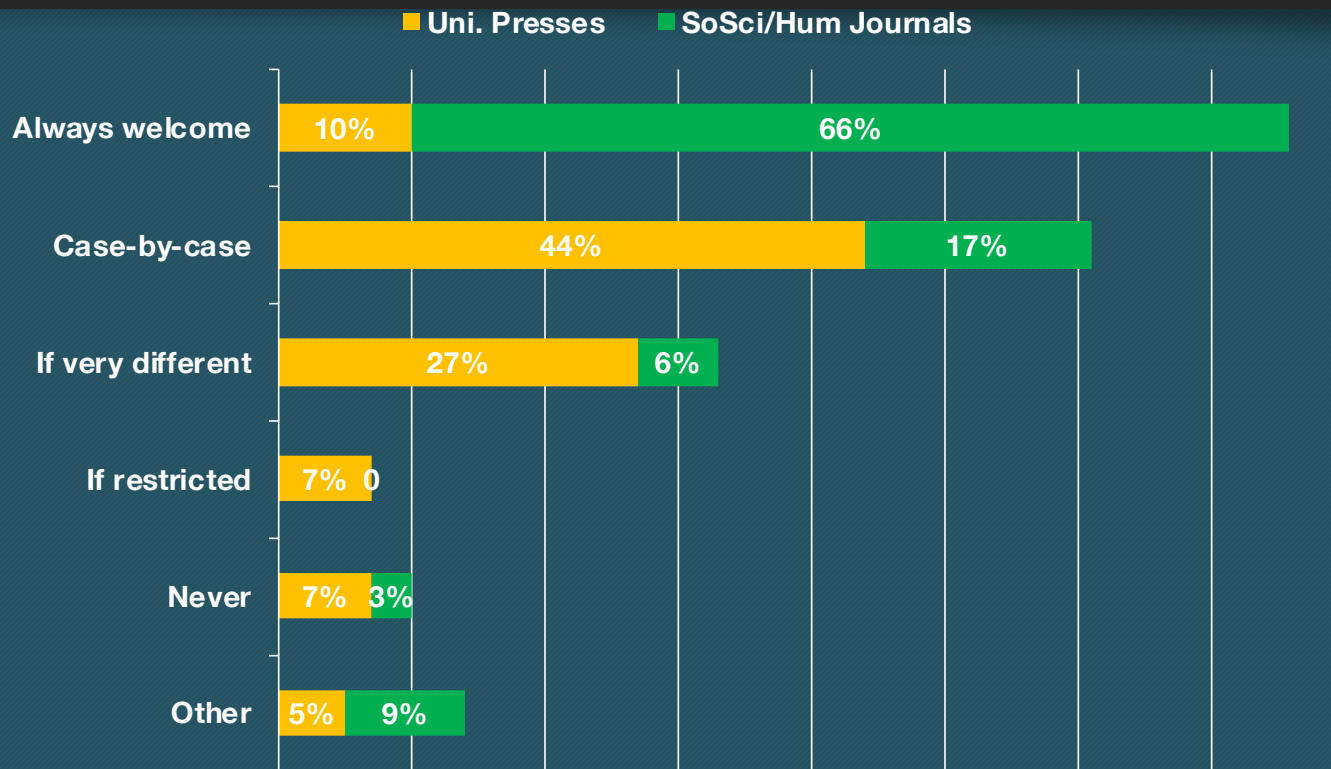
“Do Open Access ETDs Diminish Publishing Opportunities in the Sciences?” Marisa L. Ramirez, Gail McMillan, Joan T. Dalton, Ann Hanlon, Heather S. Smith, Chelsea Kern. *College & Research Libraries* 75/6 (Nov, 2014): 808-821. [doi: 10.5860/crl.75.6.808](https://doi.org/10.5860/crl.75.6.808)

“Do Open Access ETDs Diminish Publishing Opportunities in the Social Sciences and Humanities? Findings from a 2011 Survey of Academic Publishers.” Marisa L. Ramirez, Joan T. Dalton, Gail McMillan, Max Read, and Nancy H. Seamans. *College & Research Libraries*, 74/4 (July 2013): 368-380. [doi: 10.5860/crl-356](https://doi.org/10.5860/crl-356)

SoSci/Hum editors reported manuscripts which are revisions derived from openly accessible ETDs are...



SoSci/Arts/Hum Journal and Press Responses: “Manuscripts which are revisions derived from openly accessible ETDs are...”



Comments: Social Sciences/Humanities Survey

“We normally consider theses or dissertations for publication only if the author is willing to **revise them for a broader audience**; this is our practice **regardless of the availability of an ETD.**”

“All essays go through **extensive review and revision process**, so even if the starting point is out there, the final product is not.”

“A chapter of a thesis or dissertation will virtually never be suitable as an article in my journal. Authors will often have to **contextualize their discussion and explain the implications of their conclusions**. And authors will often find that, after completing a dissertation, they are able to refine the argumentation a bit as well.”

“The editorial review and publication process entails **substantial refinement and revision** of works that originate as part of doctoral work and thus we do not consider raw dissertations as competing with the works eventually published under our imprint.”

Comments: Social Sciences/Humanities Survey

“The American Psychological Association, which publishes over 40 journals across psychology, has an official policy that theses/dissertations, even if archived at a university site, are **not counted as prior publication.**”

“We do not consider the dissertation to be the equivalent of a book. It is student work; a book is professional work.”

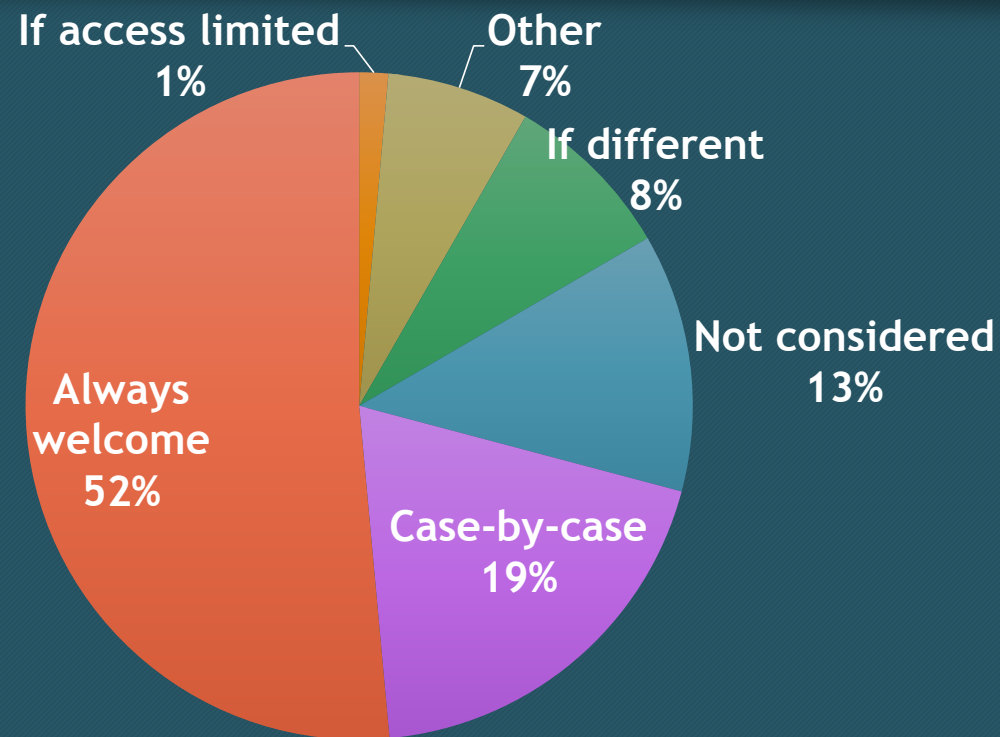
“Dissertations have never counted as publications... A pdf of an unpublished work is still an unpublished work.”

“Prior availability through an IR is not usually the deciding factor. **We are more interested in the quality of the work, how well it fits with our list, and whether it deserves wider dissemination and promotion.**”

New Concerns about ETDs

- ETDs make author anonymity difficult.
“Easy to determine who the author is and thus undermines the strength and reliability of peer review. This could, ultimately, disadvantage young scholars.”
- “I never thought about it until just now” ...
- “We ask authors to stop distribution of their ETD when we agree to publish their REVISED material.”
- ETDs include already published articles.

Science editors reported that manuscripts which are revisions derived from openly accessible ETDs are...



Comments: Science Editors' Surveys

“A peer-reviewed publication that comes out of a dissertation or thesis should not only be encouraged but is **crucially important for the scholar's development and advancement of scientific knowledge.**”

“Our journal has essentially ignored any potential conflict arising from publication of ETDs, because **the situation is really not different from the days of hard copy thesis** holdings by University libraries. They ... are simply more easily available now...”

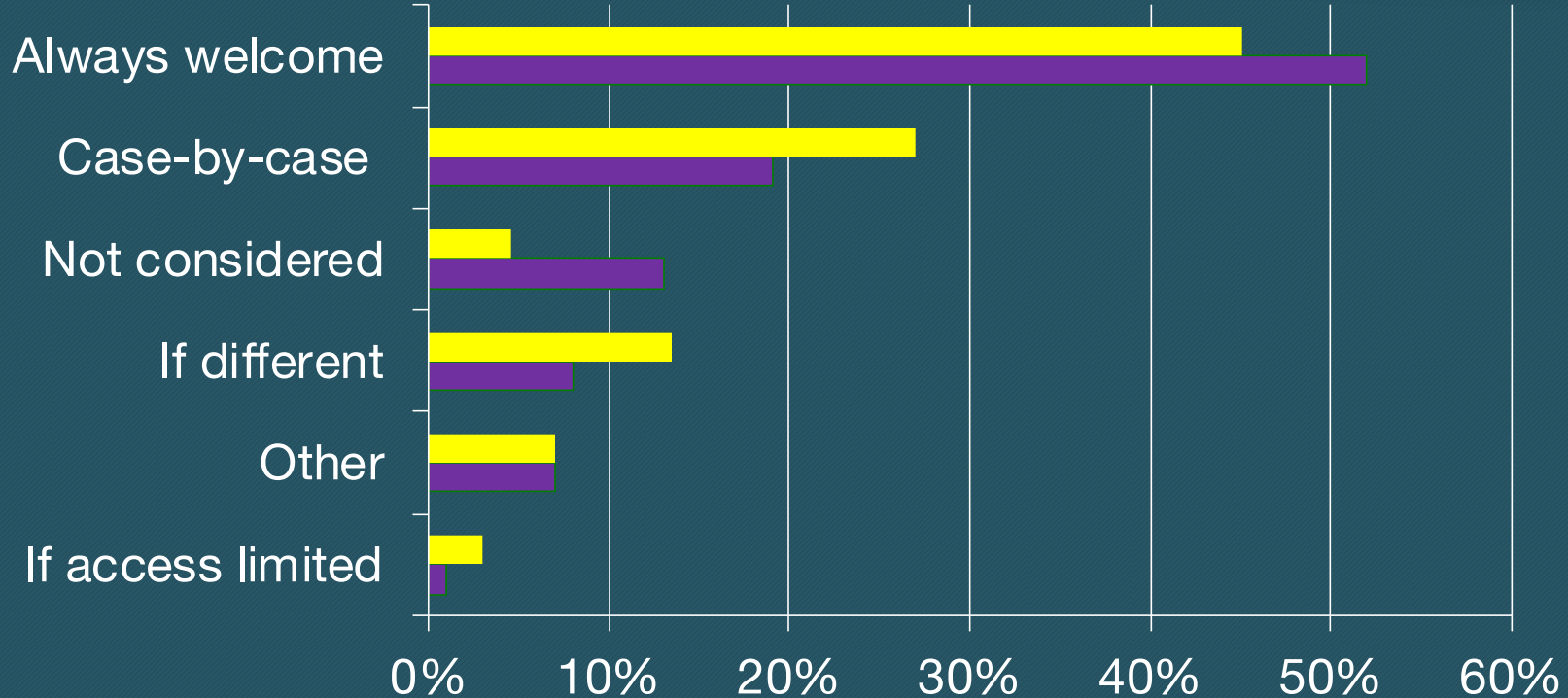
“It is our job to archive and publish the best research. Thus we are quite **happy to publish material which otherwise would sit languishing on an online archive.**”

Comments: Science Editors' Surveys

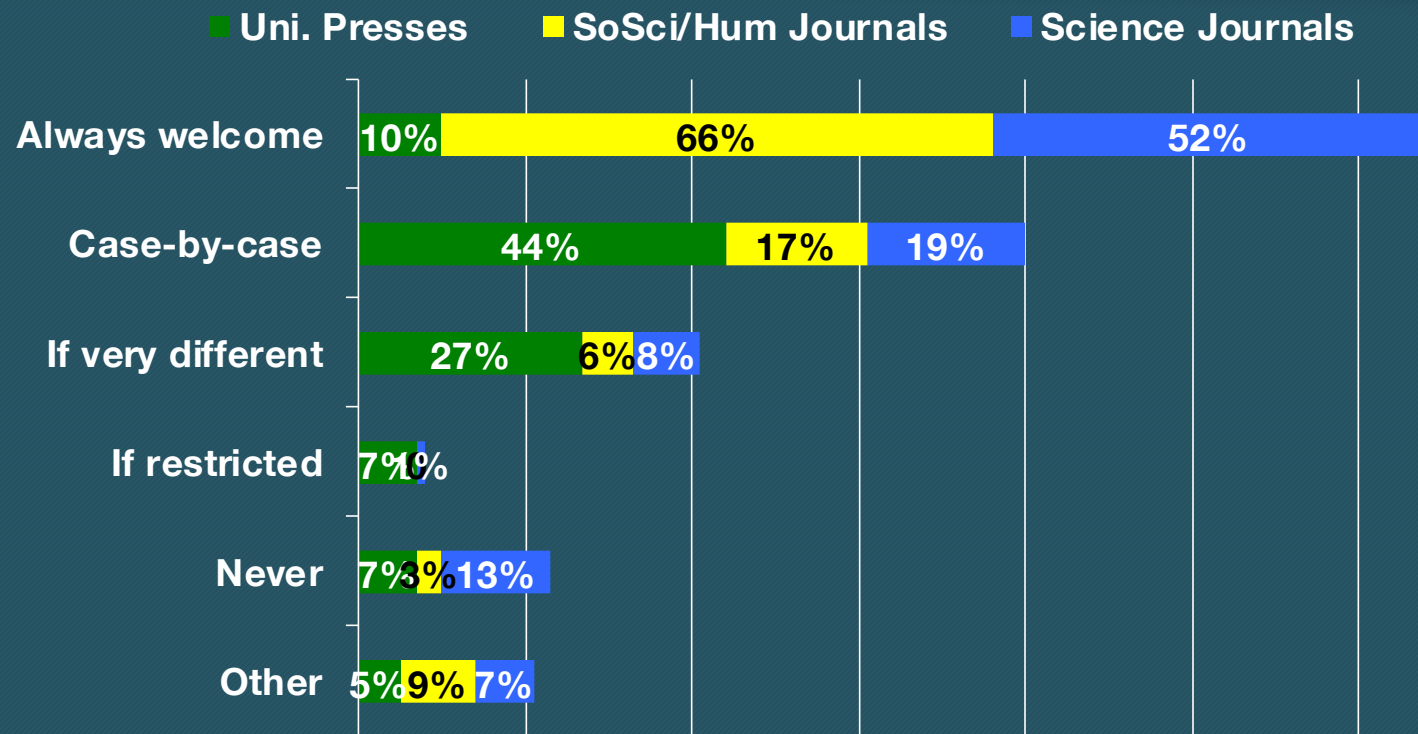
“While we recognise theses as legitimate and citeable publications, they are considered gray literature because they do not go through blind external peer review and are not published in a recognized peer reviewed outlet. They are **not considered prepublication...**”

“Work which has not been published in archival peer reviewed journals is considered appropriate for submission, **even if it is accessible elsewhere.**”

ETD Policies of Science vs. Hum/SoSci Journals



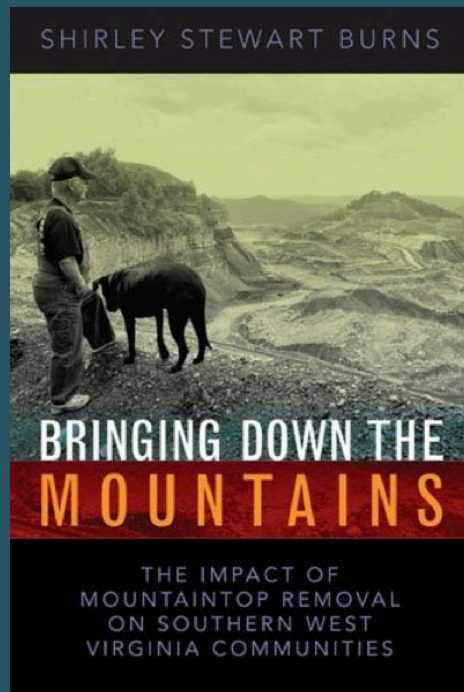
Publishers' ETD Policies 2011/2012



Based on the data from editors/publishers' surveys, submit works based on your ETDs

- Most publishers will consider publicly available ETDs.
 - 89% SoSci/Humanities; 80% Sciences
 - Make an informed decision
 - Which journals do you want to publish your articles?
 - Select a book-friendly topic, but write your ETD as an ETD.
- Quality is the publishers' main concern.
- Adapt ETD manuscript for a new readership.
- Peer review is radically different.

University press editors are invested in the book as an entity unto itself



- Evaluating a revised ETD is identical with methods for assessing subsequent books by more senior scholars
- Substantial revisions
- Structurally significantly different from the dissertation

Bringing Down the Mountains:
The Impact of Mountaintop Removal Surface Coal Mining
on Southern West Virginia Communities, 1970-2004

Shirley L. Stewart Burns

Dissertation submitted to the
Eberly College of Arts and Sciences
at West Virginia University
in partial fulfillment of the requirements
for the degree of

Doctor of Philosophy
in
History

Ronald L. Lewis, Ph.D., Chair
Elizabeth Fones-Wolf, Ph.D.
Greg Good, Ph.D.
John Hennes, Ph.D.
Roger Lohmann, Ph.D.

Department of History

Morgantown, West Virginia
2005

Keywords: Mountaintop removal, strip mining, surface mining, coal mining, coal communities, UMWA, politics, West Virginia, environment, Blair, Kopperston, Sylvester, slurry impoundment, valley fill, Massey, Arch, power, power relationships

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2015 North American academic presses

- Fresh and compelling argument, perhaps something counter-intuitive that takes the reader in an unexpected direction
- Clear, forceful argument that will change a field
- Elegant prose and a good narrative that is ‘engagingly told’
- Good fit with other books that they have published

The case for making ETDs immediately accessible

- Scholarship on a particular topic
- Visibility of early career scholars
- Professional opportunities
- Inherent value in openly sharing scholarly work
- Eligible for NDLTD awards

NDLTD* Awards

<http://www.ndltd.org/ndltd-awards/>

ETD Innovation Award

recognizes students efforts to transform the genre of the thesis/dissertation through the use of innovative research data management techniques and software to create multimedia ETDs.

- For current students working on their theses or dissertations
- Assists with preparing and publishing their ETDs
- 3 awards at \$1000 each
- Winner(s) submit acceptance speech (preferably by video)
- Nominations accepted through online form

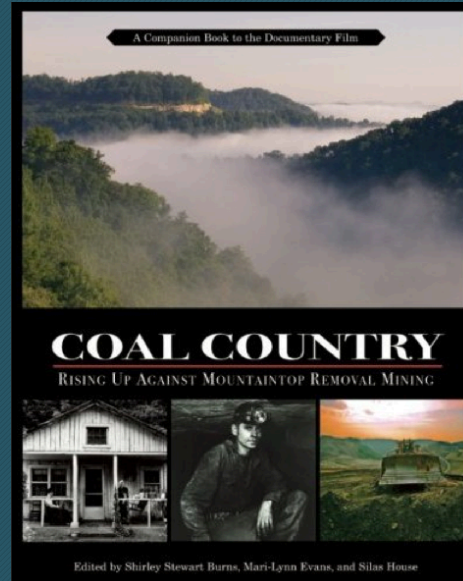
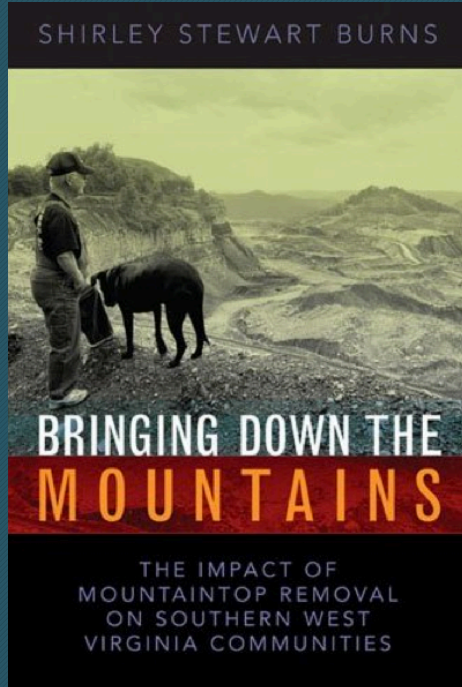
*Networked Digital Library of Theses and Dissertations

NDLTD's ETD Leadership Award

Recognizes members of the university community whose leadership and vision has helped raise awareness of the benefits of open access ETDs and whose efforts have improved graduate education and research through the use of technology.

- Nominations accepted through online form
- Winners not required to be NDLTD members
 - Non-members receive 1 year complimentary membership
- \$500 travel reimbursement to NDLTD annual symposium
- Complimentary symposium registration
- Winner(s) submit acceptance speech (or submit video)

Beyond the NDLT Awards



highways of the mind



Highways of the Mind is a multi-touch book for iPad by Helen J Burgess and Jeanne Hamming, published 2014 by the University of Pennsylvania Press.

[Preview or purchase in the Apple iBook Store.](#)

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Director, Scholarly Communication
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Kennesaw State University, April 1, 2016



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