11-6-2015

Engineering a New Home: Creating a Repository Collection for Faculty AND Building a Larger Digital Presence for the School of Engineering

Lauren Todd
Washington University in St Louis

Emily Symonds Stenberg
Washington University in St Louis

Engineering a New Home

Creating a Repository Collection for Faculty

AND Building a Larger Digital Presence for the School of Engineering

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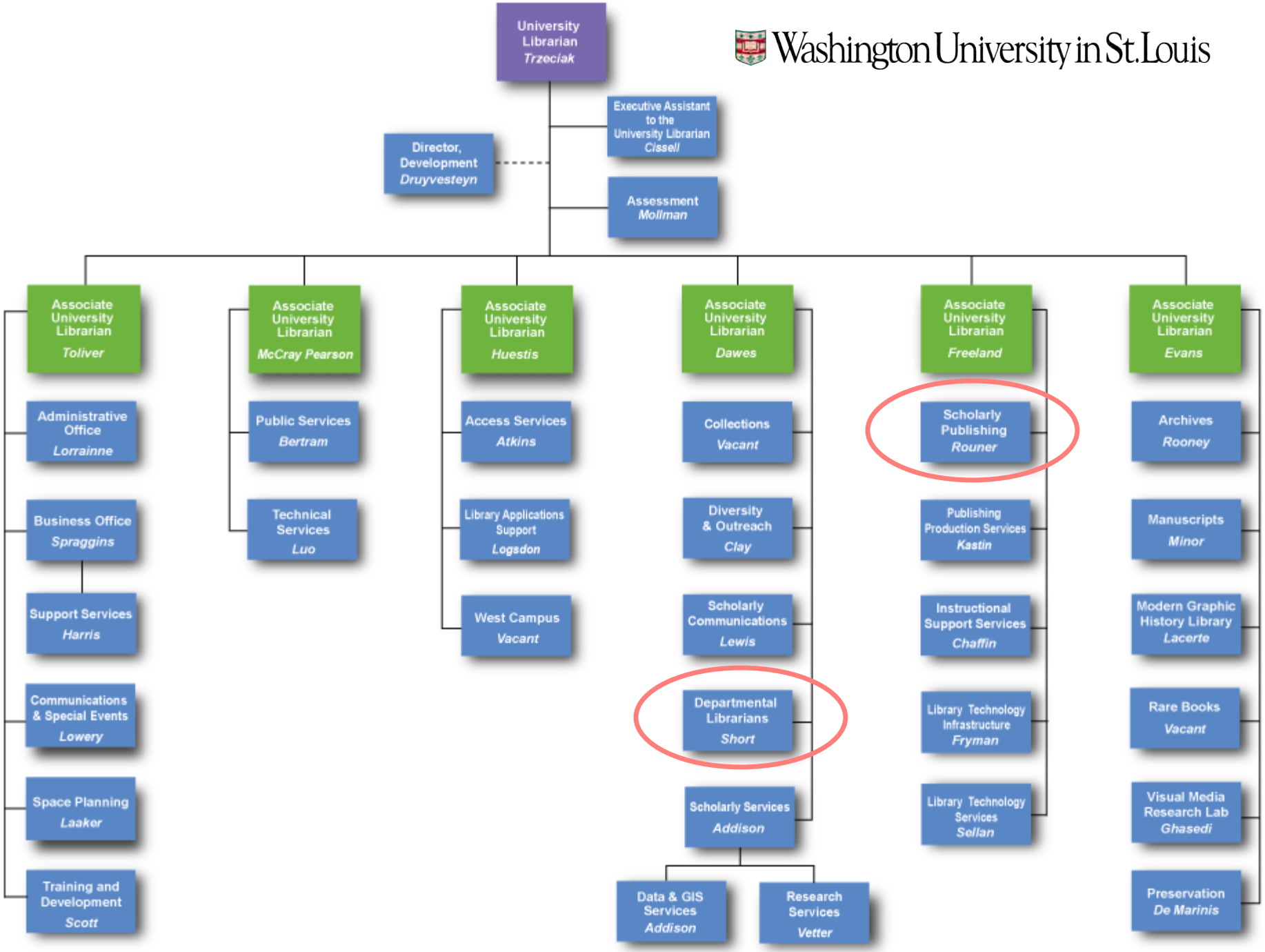
EMILY STENBERG ■ DIGITAL PUBLISHING & PRESERVATION LIBRARIAN
LAUREN TODD ■ ENGINEERING SUBJECT LIBRARIAN
WASHINGTON UNIVERSITY IN ST. LOUIS

Women workers install fixtures…Circa 1939, www.flickr.com/photos/library_of_congress/2179136893

Washington University in St. Louis



HISTORY OF OPEN SCHOLARSHIP @ Washington University in St. Louis

Ridgley Hall, c. 1924-1925, Washington University Dept. of Special Collections

WASHINGTON UNIVERSITY
OPEN SCHOLARSHIP

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- Electronic theses and dissertations
- Faculty scholarship
- Journals and peer-reviewed series
- Student scholarship

LIBRARIES

The Open Scholarship repository is a service of the Washington University in St. Louis libraries to provide free access to the scholarly output of the university. See the About and FAQ pages for links to details on mission, content and contributing.

At a Glance

Top 10 Downloads
All time

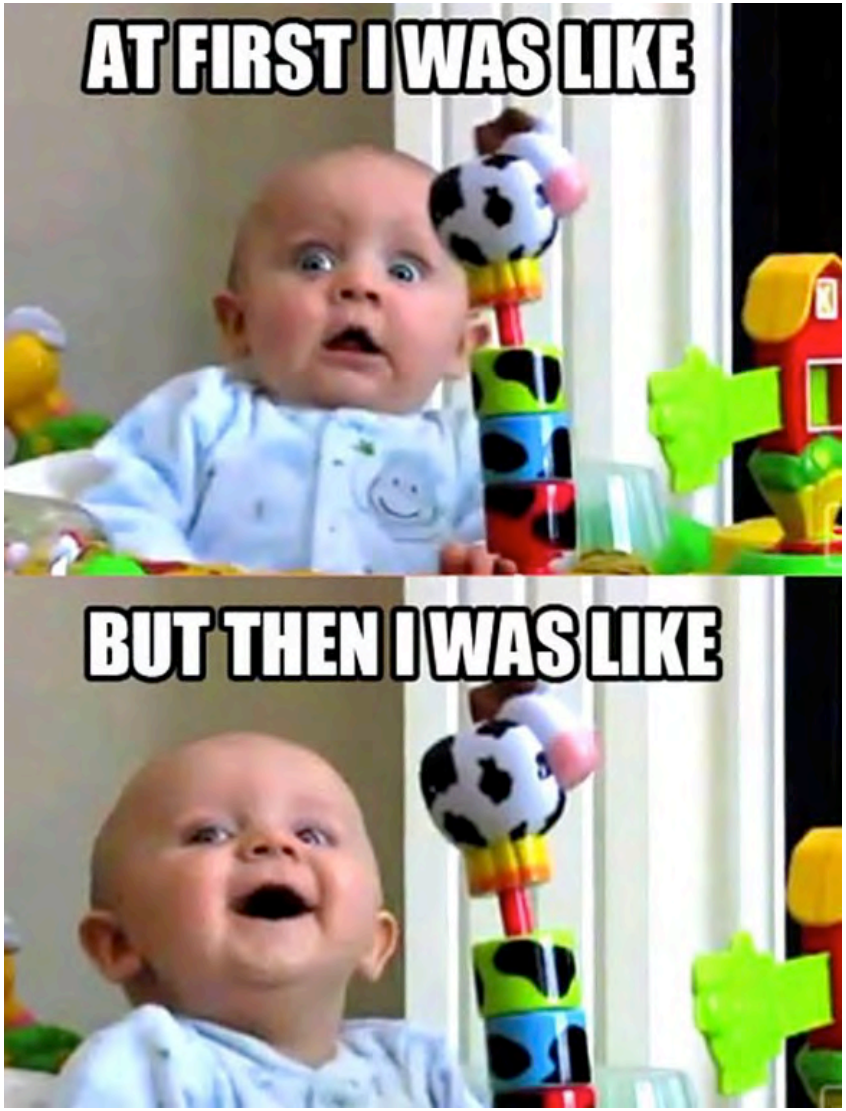
Recent Additions
20 most recent additions

Paper of the Day

The Method of Law
Max Radin

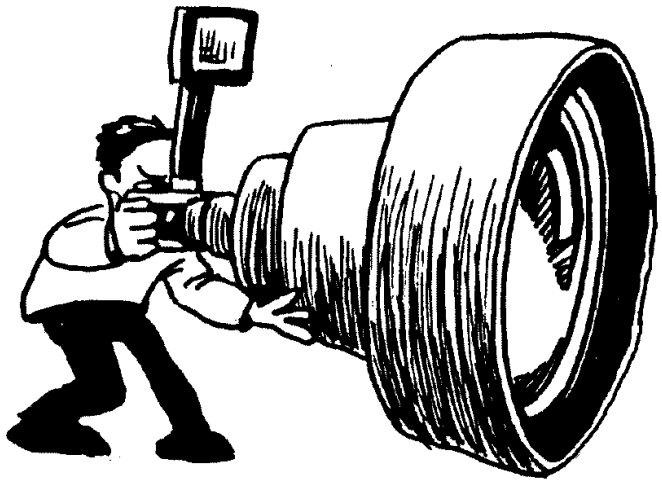
http://openscholarship.wustl.edu

Emily at Work



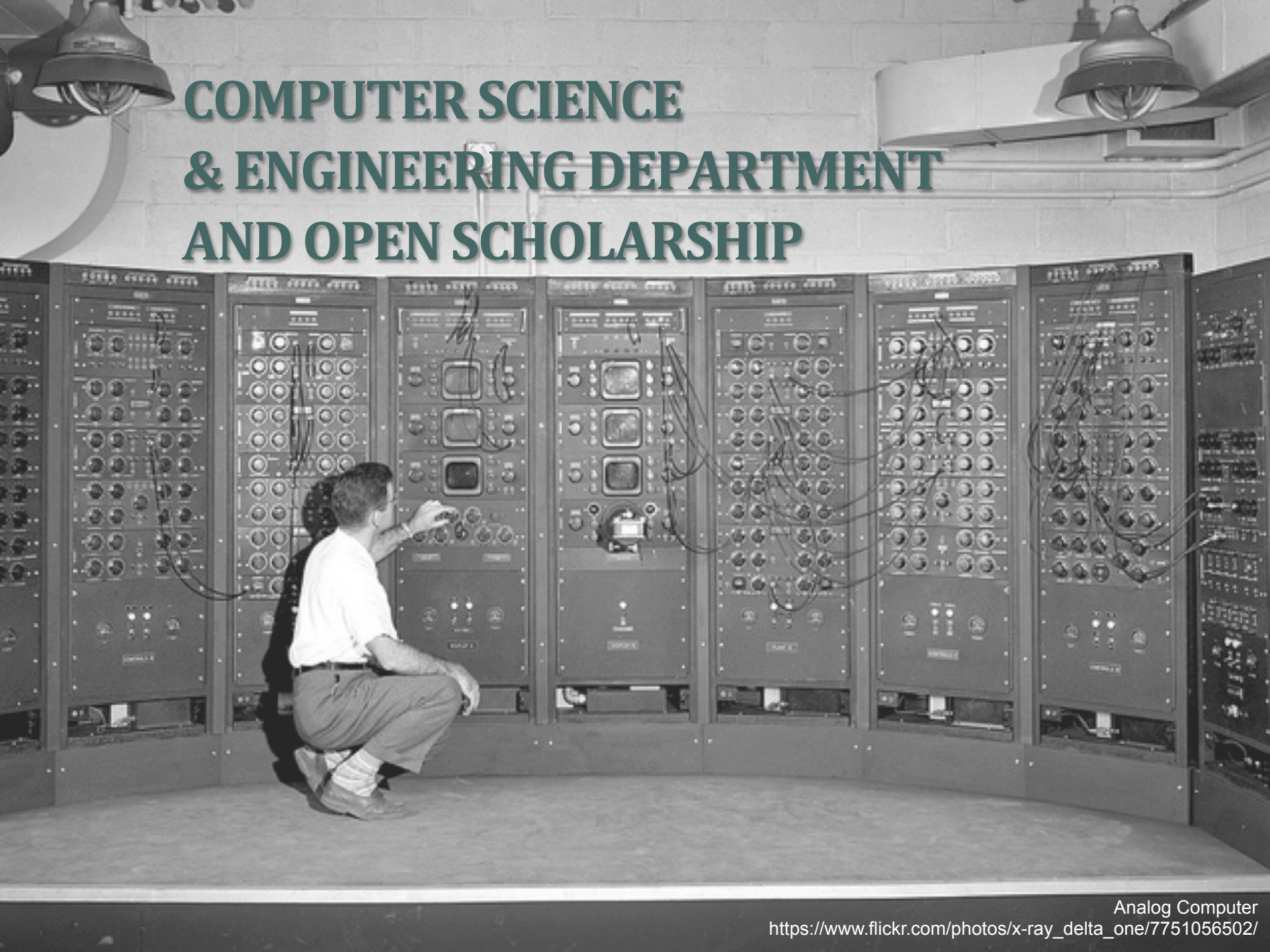
Snapshot 2013

- Dec. 2013: 1,161 Items / 106,471 Downloads
  - Graduate ETDs = 974
  - Undergraduate Work = 67
  - Faculty Publications = 75[1]
  - Other = 45



1 Primarily re-posted journal articles in Biology, Math, and Social Work

COMPUTER SCIENCE & ENGINEERING DEPARTMENT AND OPEN SCHOLARSHIP



Analog Computer
https://www.flickr.com/photos/x-ray_delta_one/7751056502/

Timeline

- April 2014 – Head of Chemistry/Engineering Library contacts Emily
- May – Emily & Lauren discuss project
- June/July – Internal Workshop *Introduction to Open Scholarship for library staff who work with faculty*
- August – Meet with CSE department
- Through 2015 – The Project!

Word of Mouth

"The Computer Science & Engineering department is looking for a repository tool for their publications, theses and dissertations. I am recommending to the department chair and project coordinator that they look into Open Scholarship to see if it might fit their needs."

Lauren's Reaction

Q&A for CSE Collection

- **Whose materials are being submitted?**
  Faculty and students, both graduate and undergrad
- **What type of content is being submitted?**
  Technical reports, theses and dissertations, with the possibility of adding pictures, videos, and other documents later. Journal and conference article reprints, depending on copyright laws.
- **Are these print-only or electronic materials?**
  These would initially all be .pdf documents, with eventually the possible addition of graphics, video, and audio files as well as possibly archive files of software packages.
  THIS BECAME A MINOR ISSUE. MORE ON THAT LATER.

Q&A for CSE Collection

- **What type of access do you want to provide?**
  The standard is full, open access. Restriction options are generally available for previously unpublished works.
  This would be open access
- **What is your timeline for having the materials available in the repository? Is this a one-time or ongoing project?**
  This is an ongoing project, and we would like everything to be available as soon as possible. Ideally, for unpublished technical reports, availability should be mostly immediate.

Open Scholarship = Perfect Match


PROJECT TEAM
ASSEMBLE!
memegenerator.net

The Players

Emily Stenberg

Lauren Todd

Librarians

Consulting Services

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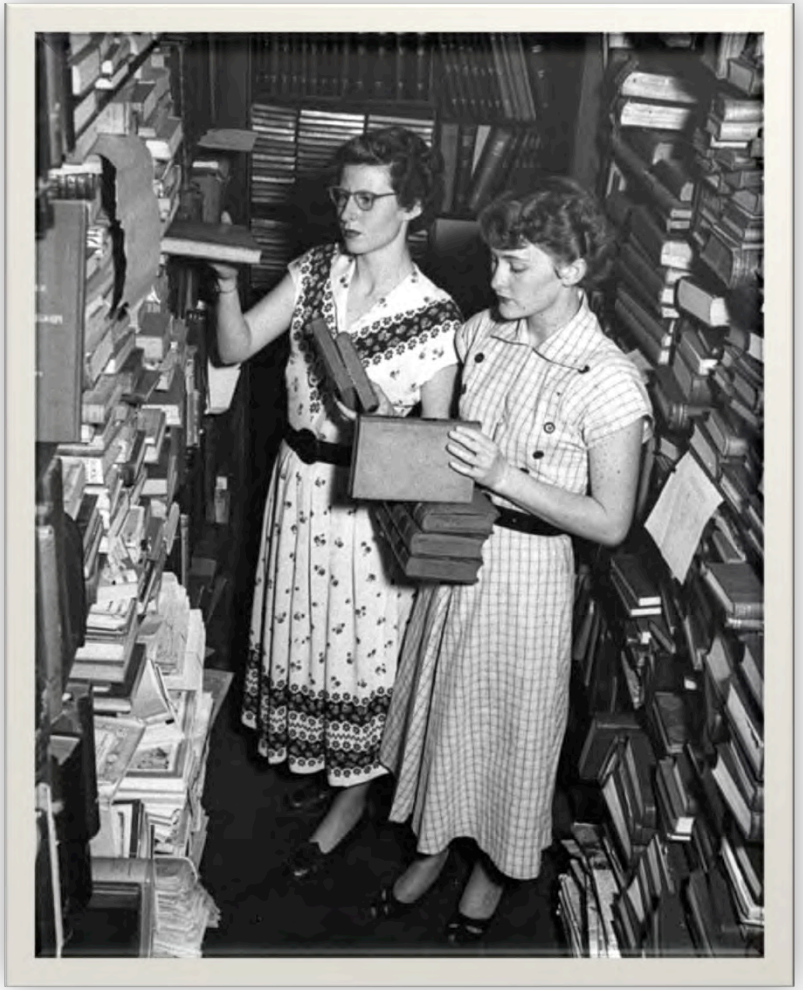
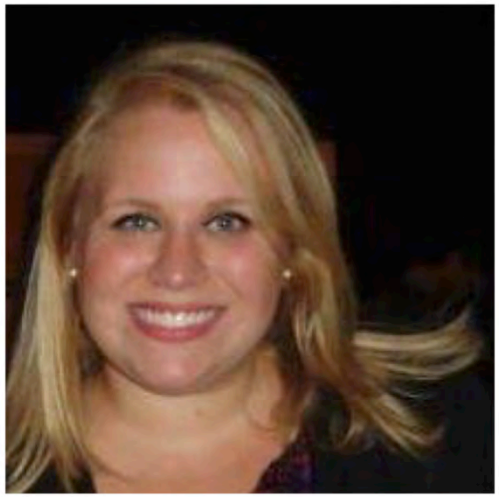


The Players: CSE

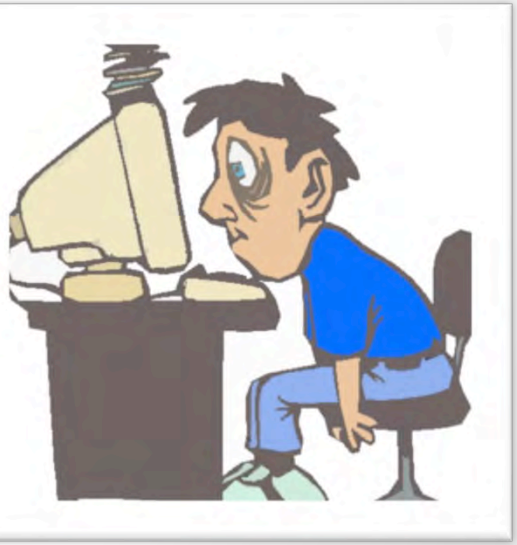
Roch Guerin
Department Chair

Tao Ju
Professor

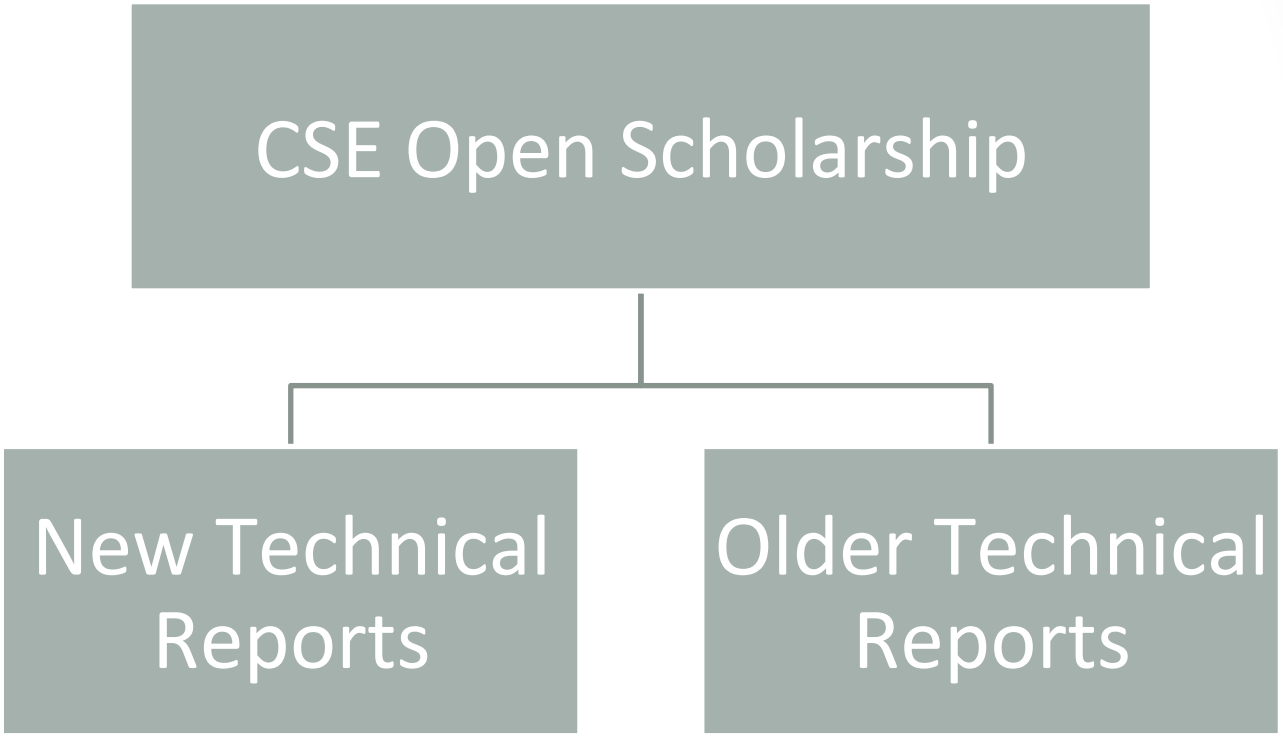


Lauren Huffman
Project Coordinator

Student Worker X
Excel Coder



The Process


CSE Open Scholarship
New Technical Reports
Older Technical Reports

Creating the Initial Collection

NEW TECHNICAL REPORTS

Collection Customizations

- The Submission Form
  - KISS Philosophy
    - From 19 fields to 8!
- Submission Structure
  - One Bucket flows down to smaller buckets

Browse the *Computer Science and Engineering* Collections:

All Computer Science and Engineering Research

Conference and Workshop Papers

Conference Posters

Journal Articles

Reports

- Display Additional Metadata on Series page

PDF Exploring User-Provided Connectivity

Mohammad H. Afrasiabi and Roch Guerin

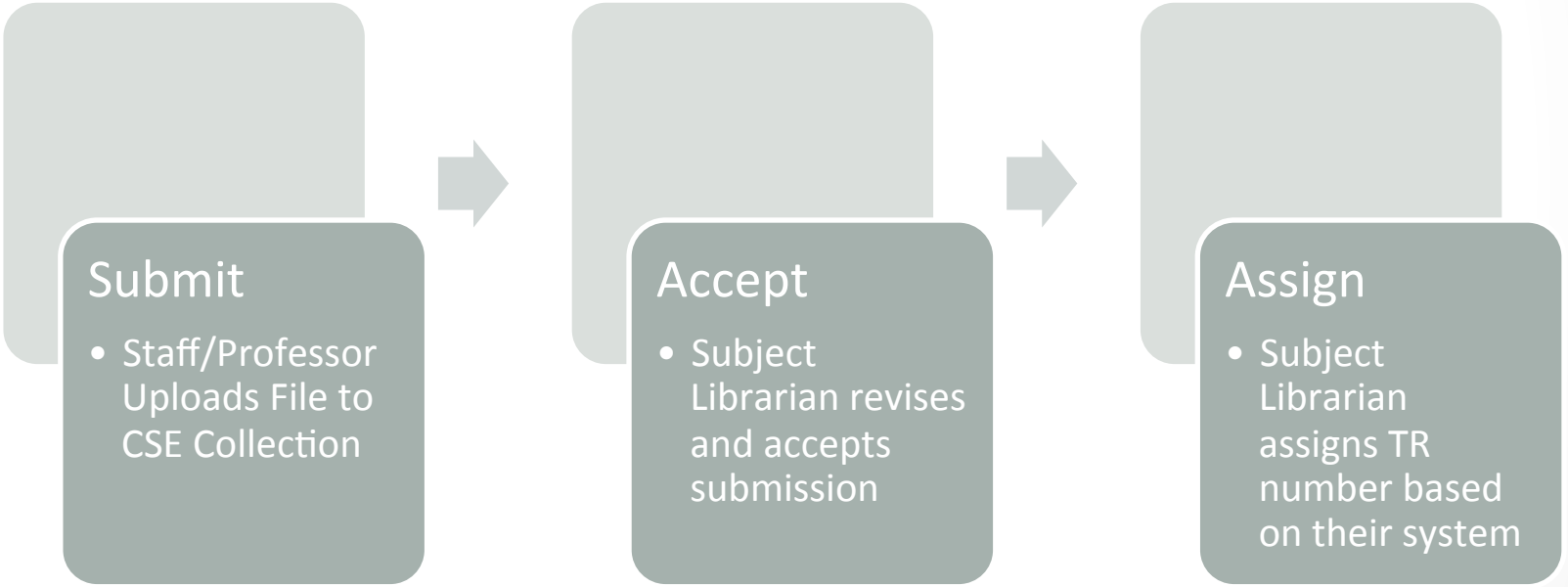
Technical Report

Abstract:

Network services often exhibit positive and negative *externalities* that affect users' adoption decisions. One such service is "user-provided connectivity" or UPC. The service offers an alternative to traditional infrastructure-based communication services by allowing users to share their "home base" connectivity with other users, thereby increasing their access to connectivity. More users mean more connectivity alternatives, *i.e.*, a positive externality, but also greater odds of having to share one's own connectivity, *i.e.*, a negative externality. The tug of war between positive and negative externalities together with the fact that they often... **Read More**

- Advanced Search Function Features

The Launch


Submit
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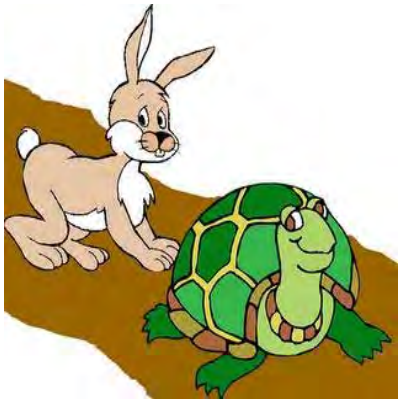
Accept
• Subject Librarian revises and accepts submission
Assign
• Subject Librarian assigns TR number based on their system

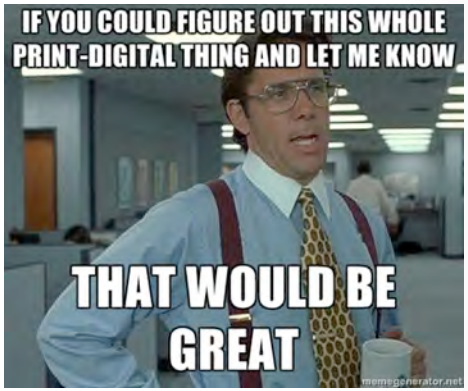
The Tweaks

- Too Fast, Too Slow?



- Report Numbers

- File Format & Cover Page



Backfilling the collection

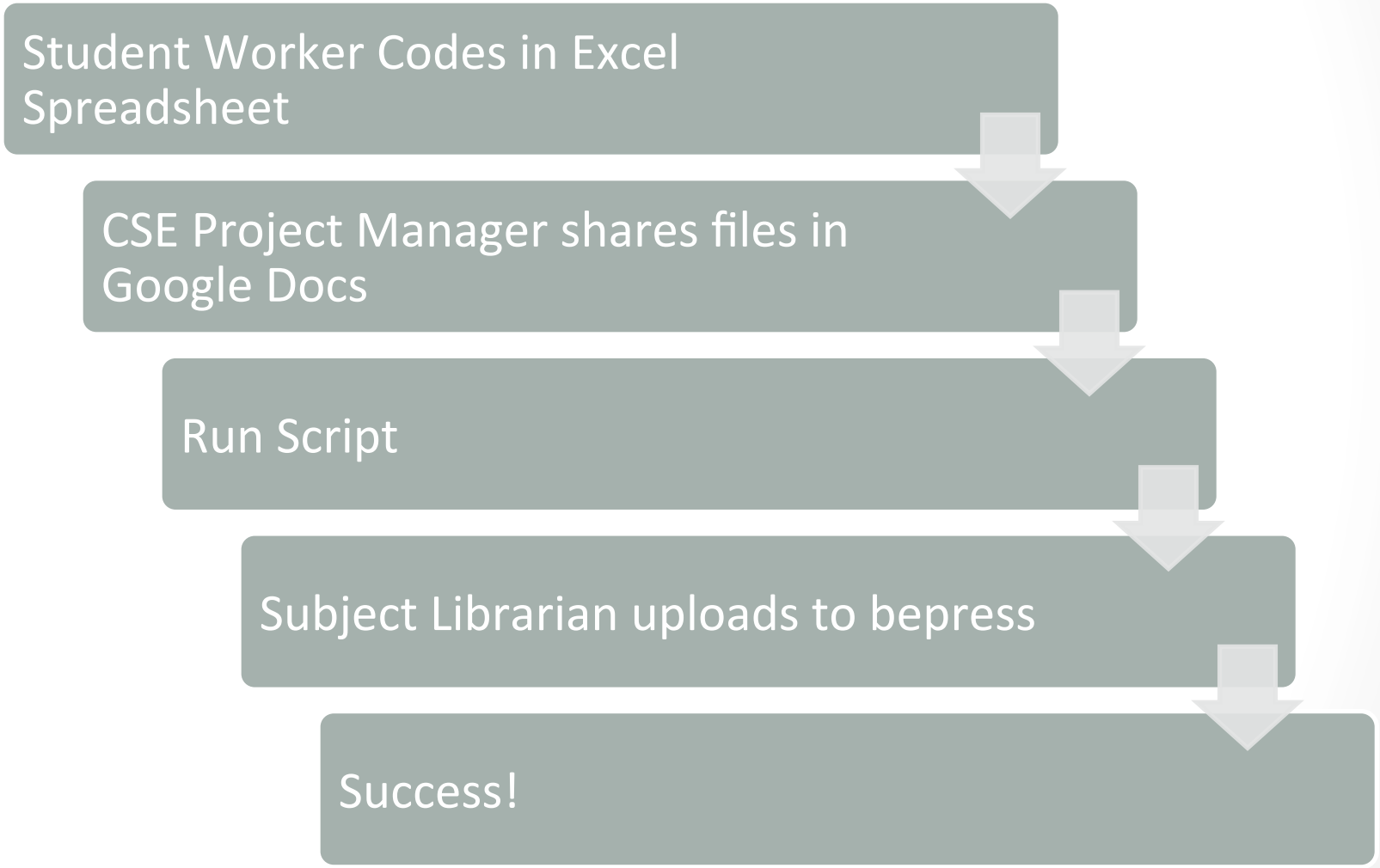
OLD TECHNICAL REPORTS

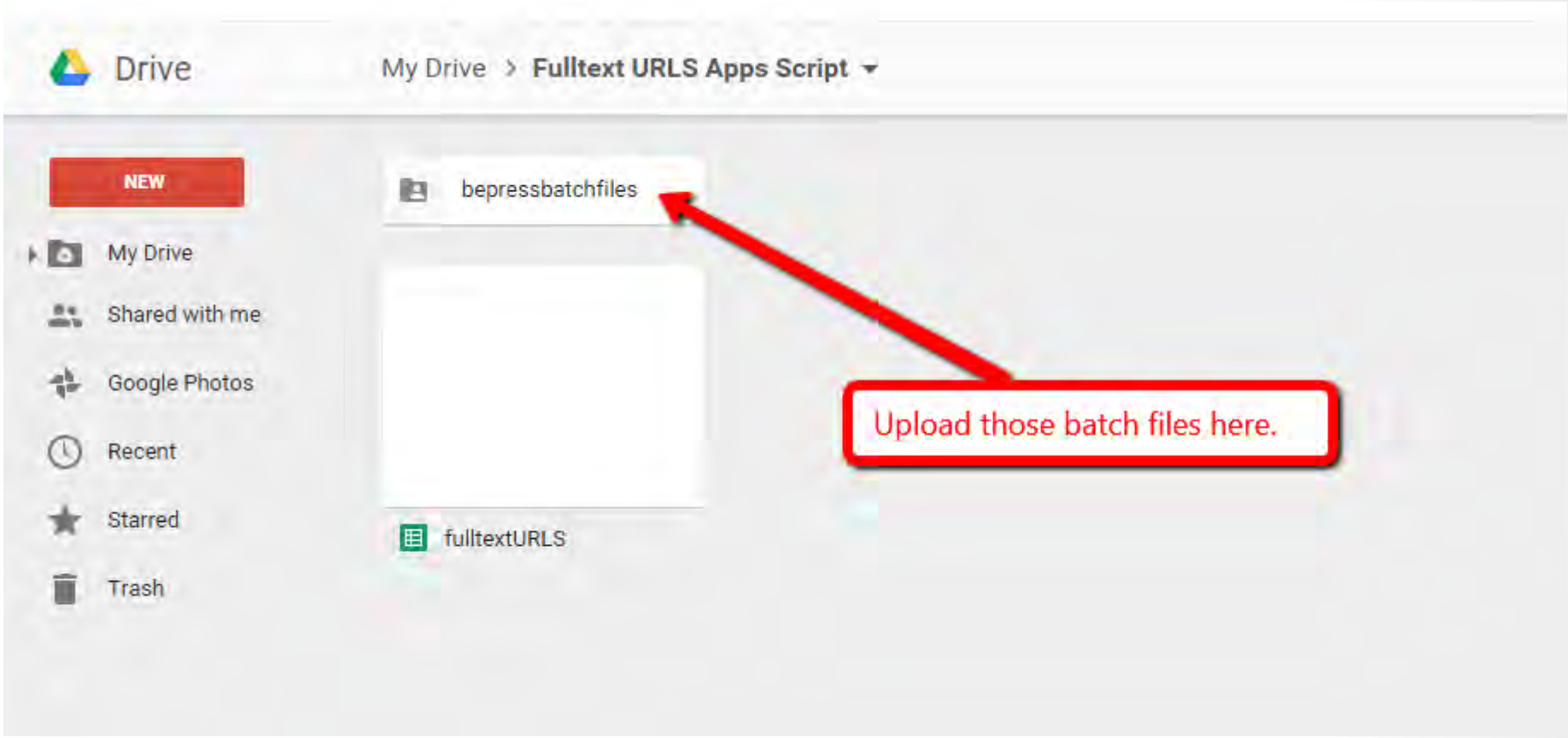
What is this Google Batch thing?

OR

- Workflow using Google Drive, a “getURLS App script,” and Excel for semi-automated batch upload
- See engagedscholarship.csuohio.edu/msl_facpub/105/ (Cleveland State University, 2014)

Batch Uploading Old Reports

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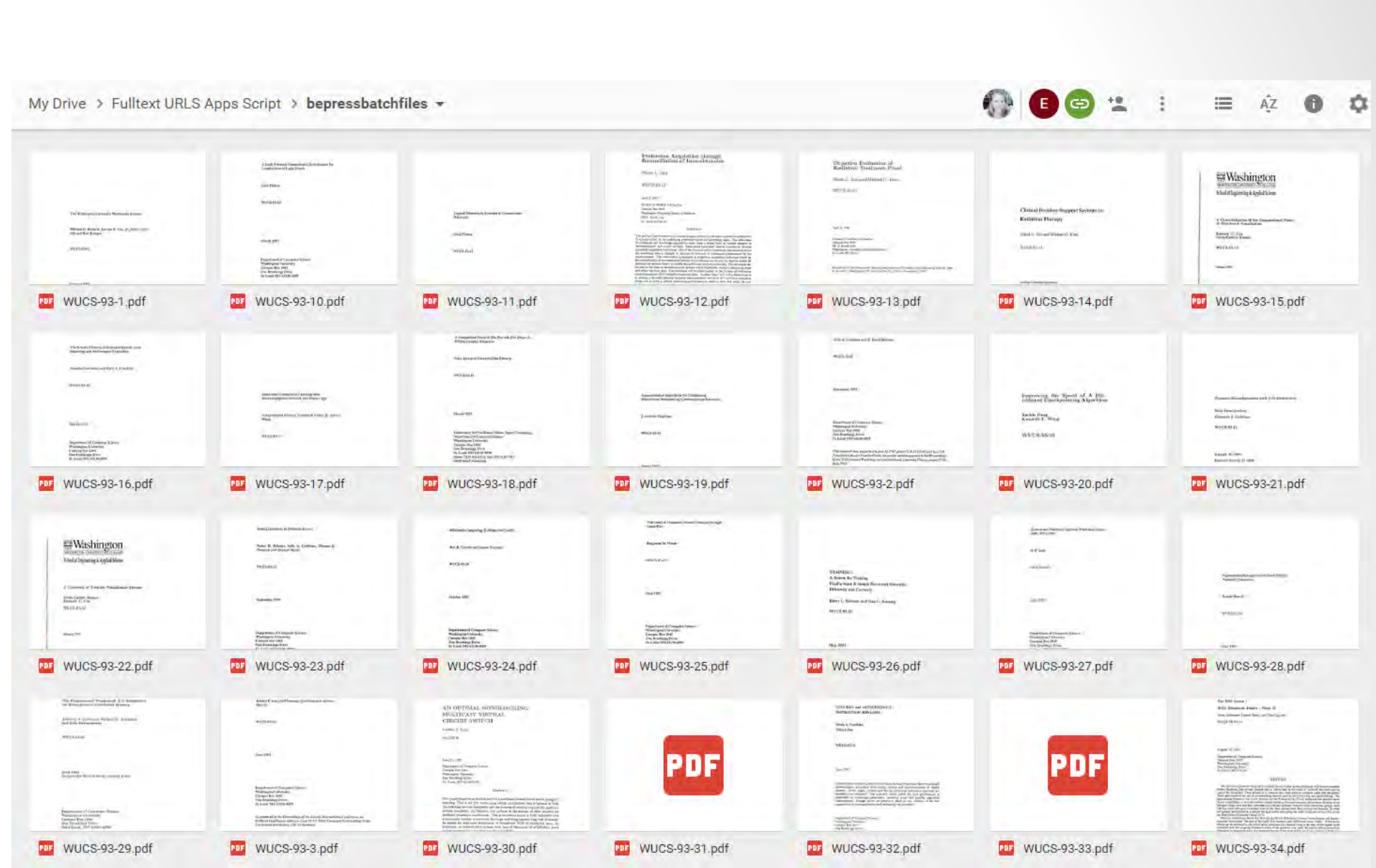

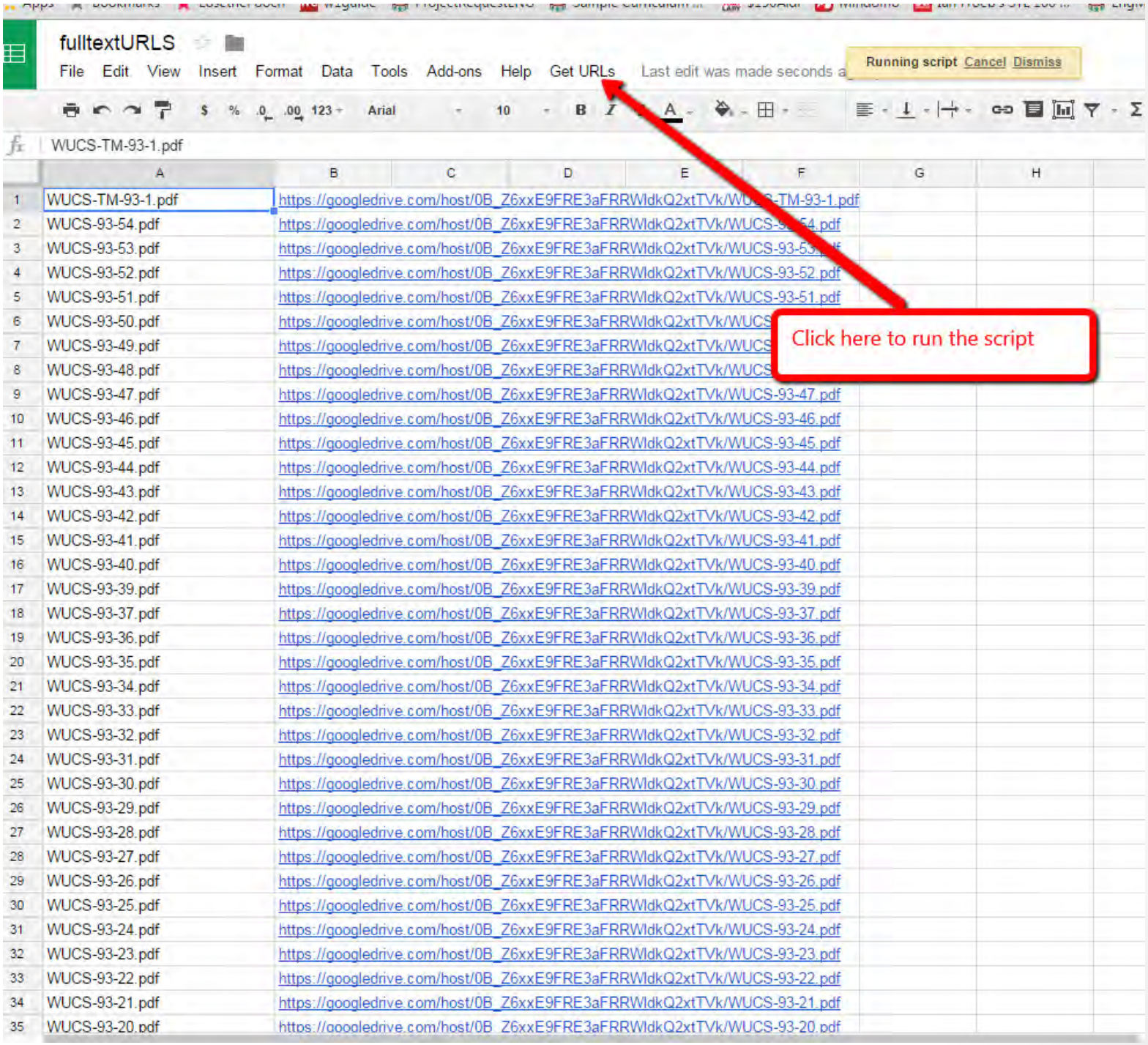

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4	Logical Interference in Symmetric Connectionist Networks	WUCS-93-11.pdf							FALSE			
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9	The N-body Problem: Distributed System Load Balancing and	WUCS-93-16.pdf	Vasudha		Govindan			Washington	FALSE	Mark	A.	Franklin
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25	An Optimal Nonblocking Multicast Virtual Circuit Switch	WUCS-93-30.pdf	Jonathan	S.	Turner			Washington	FALSE			
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28	The DIM system: Turn-Taking in Dyadic Telephone Dialogues	WUCS-93-33.pdf	Umesh		Berry			Washington	FALSE	Anne		Johnstone
29	The DIM system: WOZ Simulation Results - Phase II	WUCS-93-34.pdf	Anne		Johnstone			Washington	FALSE	Umesh		Berry
30	A Unified Model for Shared-Memory and Message-Passing	WUCS-93-35.pdf	Kenneth		Goldman			Washington	FALSE	Katherine		Yelick
31	Distributed Computing Systems and Checkpointing	WUCS-93-36.pdf	Ken		Wong			Washington	FALSE	Mark		Franklin
32	Reasoning about Synchrony Illustrated on Three Models of	WUCS-93-4.pdf	Gruia-Catalin		Roman			Washington	FALSE	Jerome		Plun
33	Clothespins on Timelines: Utilities and The Interval	WUCS-93-5.pdf	R.	P.	Loui			Washington	FALSE	Jersey		Chen
34	SYMPHONY: A Hardware, Operating System, and Protocol	WUCS-93-6.pdf	Andreas	D.	Bovopoulos			Washington	FALSE	R.		Gopalakrishnan
35	Effective Loss of Multiplexed ATM Cell Streams	WUCS-93-8.pdf	Seyyed	M-R	Mahdavian			Washington	FALSE	Andreas	D.	Bovopoulos
36	Representing and Learning Propositional Logic in Symmetric	WUCS-93-9.pdf	Gadi		Pinkas			Washington	FALSE			
37	Learning One-Dimensional Geometric Patterns Under One-	WUCS-94-1.pdf	Paul	W.	Goldberg			Washington	FALSE	Sally	A.	Goldman
38	Visual Specification of Interprocess and Intraprocess	WUCS-94-10.pdf	T.	Paul	McCartney			Washington	FALSE	Kenneth	J.	Goldman
39	Catching Up With the Networks: Host I/O at Gigabit Rates	WUCS-94-11.pdf	Zubin	D.	Dittia			Washington	FALSE	Jerome	R.	Cox
40	Rationales and Argument Moves	WUCS-94-12.pdf	R.	P.	Loui			Washington	FALSE	Jeff		Norman
41	Congestion Control in ATM Networks	WUCS-94-13.pdf	Apostolos		Dailianas			Washington	FALSE	Andreas		Bovopoulos
42	Self-stabilization by Cunter Flushing	WUCS-94-14.pdf	George		Varghese			Washington	FALSE			
43	Strategies for the Parallel Training of Simple Recurrent Neural	WUCS-94-15.pdf	Peter	J.	McCann			Washington	FALSE	Barry	L.	Kalman
44	Trading Packet Headers for Packet Processing	WUCS-94-16.pdf	George		Varghese			Washington	FALSE			

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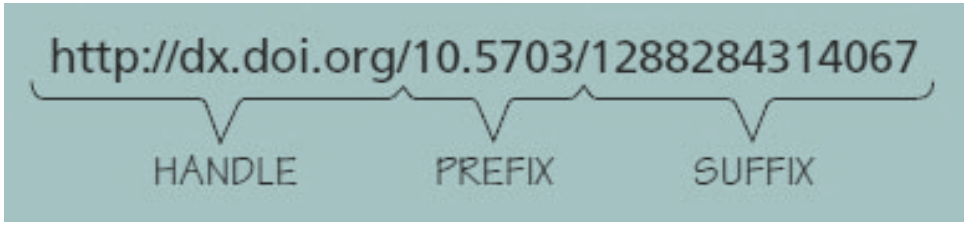


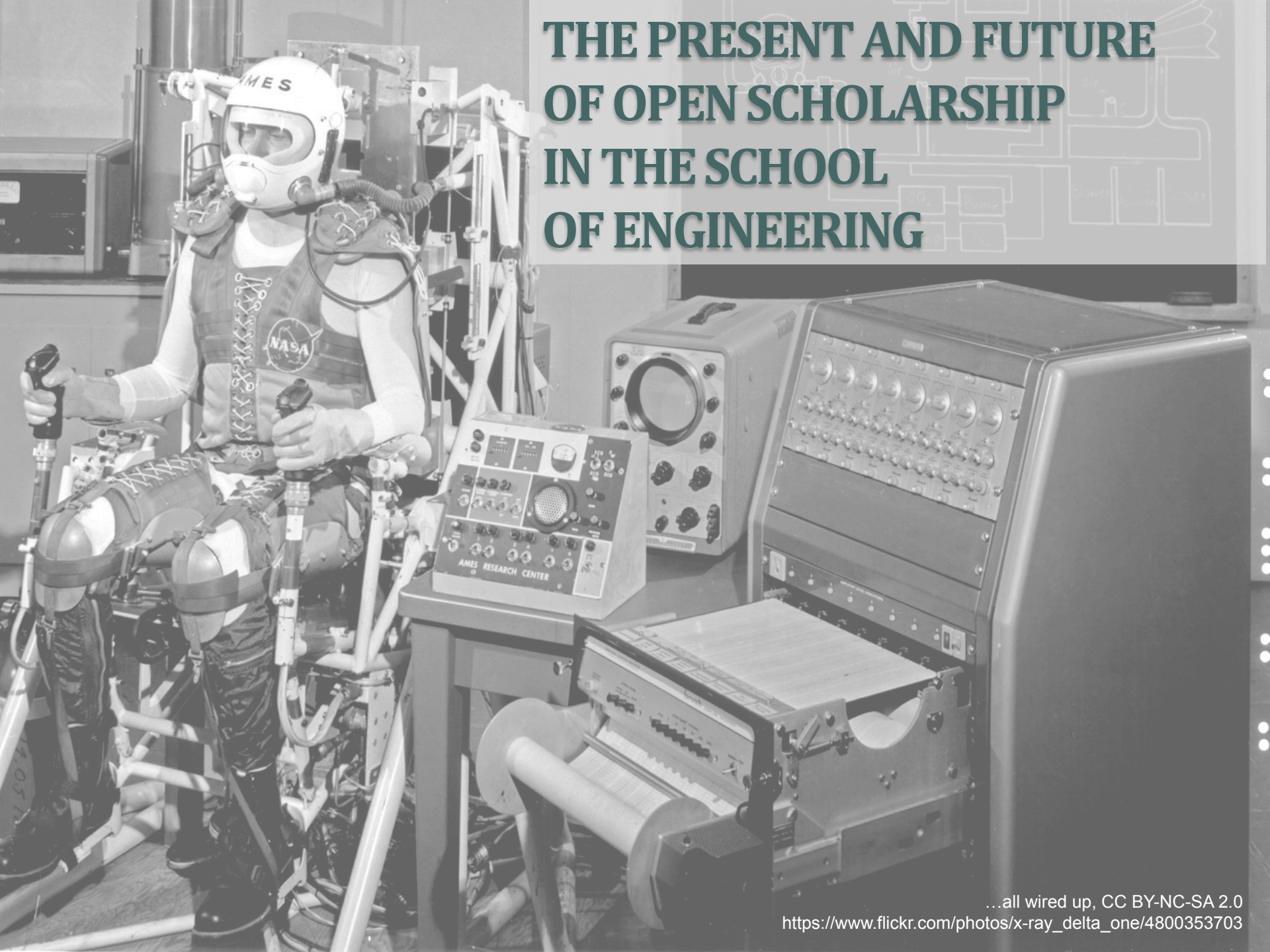
Current Project Status

By the Numbers

- 501 Technical Reports from 1993 to present
- 508 items in CSE collection[1]
- 5579 Total Downloads
- 309 downloads for report posted in Jan. 2015[2]

1 Other items self-submitted by faculty
2 “RT-OpenStack: a Real-Time Cloud Management System,” 2014

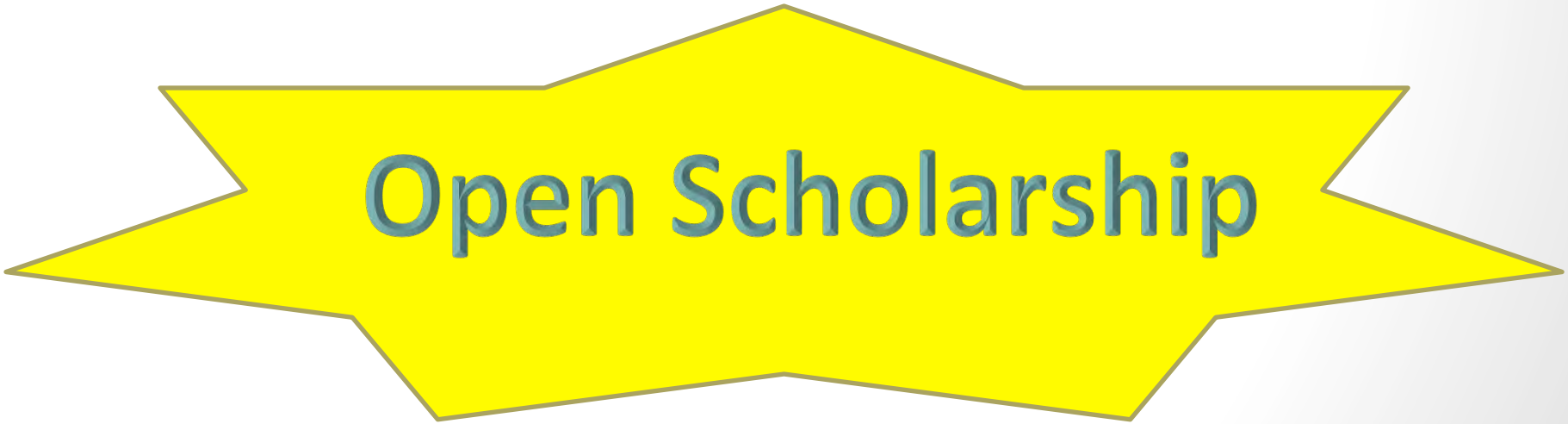
THE PRESENT AND FUTURE OF OPEN SCHOLARSHIP IN THE SCHOOL OF ENGINEERING



MECHANICAL ENGINEERING DESIGN CAPSTONE PROJECT

MEMS 411

- Groups required to “publish” final project report
  - Post to a blog, other website, Twitter
  - Often deleted after the class
- Instructors wanted a permanent archive of past class projects and work



MECHANICAL ENGINEERING DESIGN PROJECT CLASS

MEMS 411: Mechanical Engineering Design Project

Small student teams will complete design projects in an environment simulating a research and development setting. First, working individually, students will complete a conceptual design study for three (3) design briefs. These will be presented to the instructors and students for review and selection of favored concepts. Following the group concept selection, small teams (3-4 students) will be formed for each favored project. These teams will produce a preliminary working prototype, an engineering analysis proposal and associated engineering analyses, a final working prototype which will be "documented" in an appropriate manner (e.g. a CAD model), and a publication that will inform other interested parties of its existence.

Jump to:

2014 ▾

Submissions from 2014

PDF Toy Train Group II, Track Laying Train, William Andersen, Jordan Zwetchkenbaum, and Chiamaka Asinugo

Bicycle-Driven Water Pump Group 3, Brent K. Auyong, Michael Park, and James Weber

PDF MEMS 411 Senior Design: Wind Powered Walking Robot, Timothy J. Elliott, Kenna Middleton, and Jose Rodes

Toy Train Group II, Track Laying Train

William Andersen Follow

Jordan Zwetchkenbaum Follow

Chiamaka Asinugo Follow

Publication Date
Fall 12-9-2014

Document Type
Final Report

Author's School
School of Engineering and Applied Science

Author's Department
Mechanical Engineering and Materials Science

Class Name
Mechanical Engineering Design Project (MEMS 411)

Recommended Citation
Andersen, William; Zwetchkenbaum, Jordan; and Asinugo, Chiamaka, "Toy Train Group II, Track Laying Train" (2014). *Mechanical Engineering Design Project Class*. Paper 13.
http://openscholarship.wustl.edu/mems411/13

Bicycle-Driven Water Pump Group 3

Brent K. Auyong, *Washington University in St Louis* Follow
Michael Park, *Washington University in St Louis* Follow
James Weber, *Washington University in St Louis* Follow

Publication Date
Fall 12-8-2014

Document Type
Final Report

Problem Statement
According to a recent study conducted by the NOAA, water shortages are becoming a growing trend and will affect nearly 36 states in the next 5 years. As a result, people are starting to collect excess rainwater and gently used water in large rain collection barrels. In an effort to reuse water, our customer requested a bicycle-powered device to pump water from their rain collection barrel to their garden approximately 50 yards away. This device must be a one-person operation and work without electricity. By reusing water and storing them in collection barrels, the user can save up to $8.00 a month and up to 55 gallons of water at a time. Our design will also allow our customer to empty a full barrel in 15 minutes and move the water up to a height of 15 feet.

Author's School
School of Engineering and Applied Science

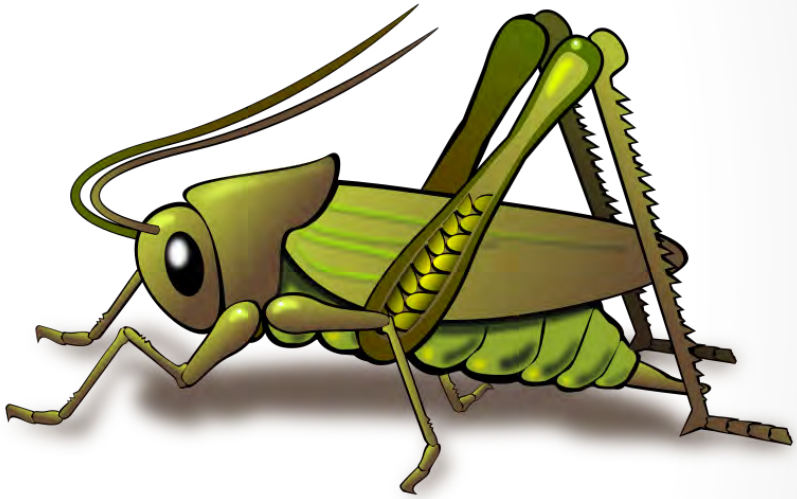
Author's Department
Mechanical Engineering and Materials Science

Class Name
Mechanical Engineering Design Project (MEMS 411)

Recommended Citation
Auyong, Brent K.; Park, Michael; and Weber, James, "Bicycle-Driven Water Pump Group 3" (2014). *Mechanical Engineering Design Project Class*. Paper 1.
http://openscholarship.wustl.edu/mems411/1

Changes for 2015 Semester

- No Embargo Option
- Fully explain "Third-Party Search" Option
- "Spirit of Open Scholarship"



TECHNICAL WRITING
FINAL PROJECT COLLECTION

Good candidate for Open Scholarship:

Let's Do this!

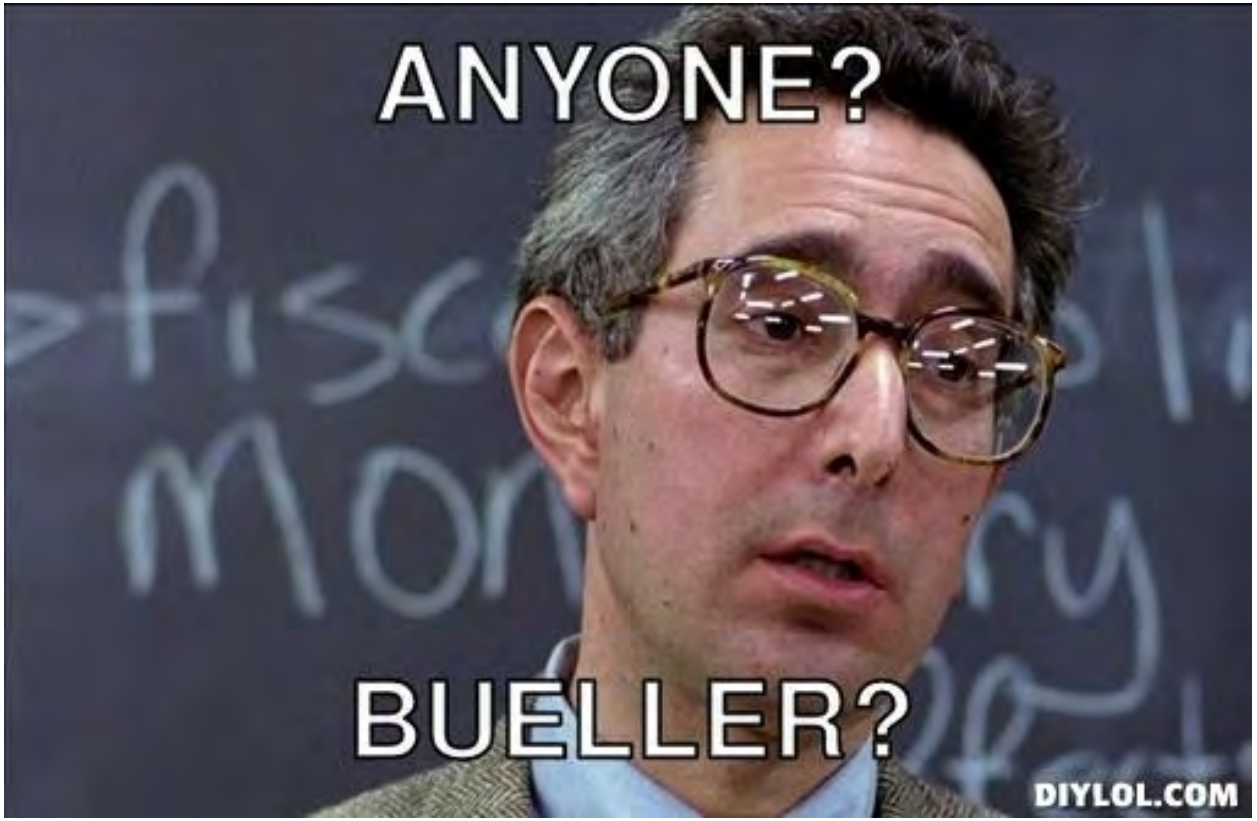
From: Todd, Lauren
Sent: Wednesday, May 13, 2015 10:20 AM
To: Matteucci, Sandra; Dahlheimer, Seema; SEAS Engineering Communication Center
Cc:
Subject: Best Technical Writing Final Reports for Open Scholarship

The time has come to build our Technical Reports Repository!

Please email those students with the reports you want to save into the collection. The individuals must submit the projects themselves. Here ar
the instructions on how they can submit their work. Let me know if you have any questions!

Instructions for Students
How to publish your Technical Writing Final Report to Washington University's Open Scholarship
1. Go to http://openscholarship.wustl.edu.
2. Click on "My Account" and then click "Create New Account." This will allow you to submit your report and edit your revisions.
3. After you have created and confirmed your account, go to http://openscholarship.wustl.edu/engr310/
4. On the bottom left column, click "Submit Research."
5. Read the "Submission Agreement," agree to the terms and click to continue.
6. Fill out the required fields in the submission form and attach the main file. Consider the following:
-Embargo Period: Do you want your research visible only after a period of time?
-Third-Party Search: Do you want the text of your report to be searchable in Google?
- Additional Files: Do you have any video files, sketches, etc. that you would like attached to the report?
7. Click Submit.

You will receive an email confirmation, and when the file is posted, you will be emailed a permalink to the report.


ANYONE?
BUELLER?
DIYLOL.COM

RETROSPECTIVE (EECE) CHEMICAL ENGINEERING THESES

To be added to Open Scholarship

- In addition to NOT Instead of Print
  - Copies came from EECE
- Print theses already scanned
  - Individual PDFs
- Not comprehensive
  - Approx. 230 theses from 1972-2007
- First batch RTD project

WHERE OPEN SCHOLARSHIP STANDS NOW

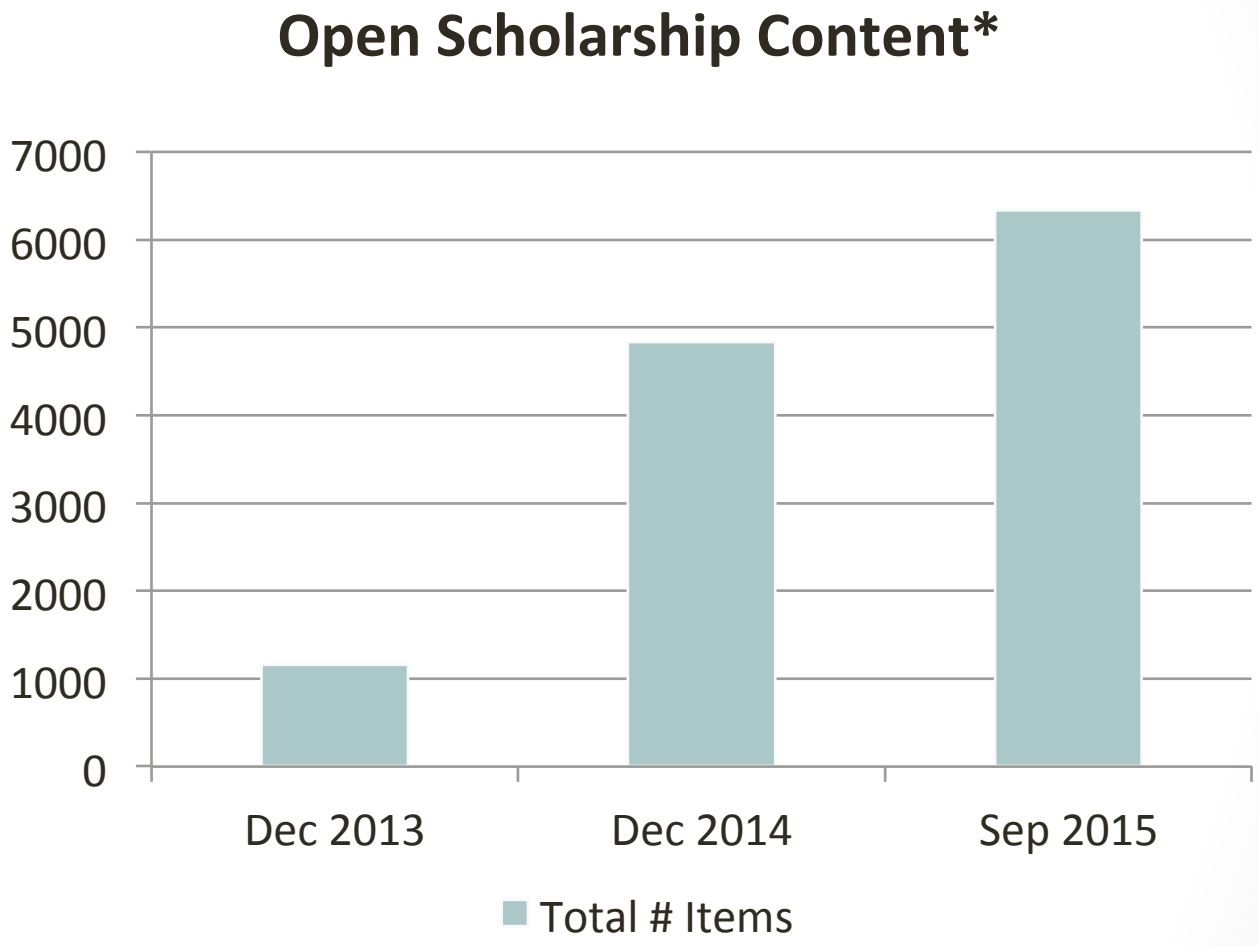
Spruce Villa, 1948, CC BY-NC-ND 2.0
https://www.flickr.com/photos/whitbyarchives/2382796841

Snapshot 2015

- Sep. 2015: 6,335 Items / 383,574 Downloads
  - Graduate ETDs = 1,938
  - Undergraduate Work = 2,975[1]
  - Faculty (& Staff) Publications = 912
  - Other = 510
- Sep. 2015 (with Law Content): 13,871 Items / 1,651,864 Downloads

1. 2606 individual pages from 21 undergraduate journal issues

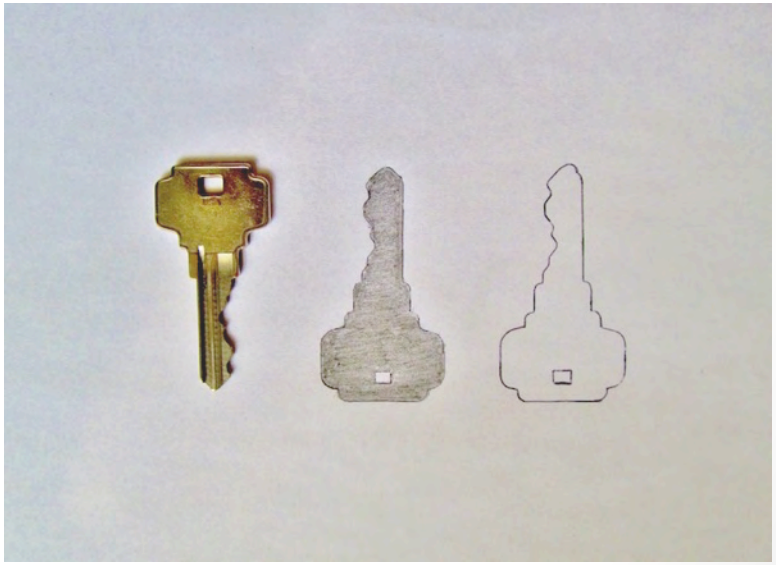
Then and Now



* Does not include Law publications

Some Broader Takeaways

- Offer services and resources that are needed.
- Be patient. (If you build it…)
- Get out of your silo.
- Share the responsibility.
- Have a plan, but be flexible.
- Replicate success.



Questions?
Comments?
Concerns?

Thank you!

emily.stenberg@wustl.edu
lauren.todd@wustl.edu

Slides will be at http://openscholarship.wustl.edu/lib_present/21

http://onwardstate.com/2013/07/23/the-26-gifs-that-even-more-perfectly-describe-penn-state/conan-bowing/