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PDXScholar Annual Report 2014

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PDXScholar Annual Report

This report covers activity from January 1, 2014 - December 31, 2014.

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PDXScholar

[PDXScholar](#) is a repository and digital service for gathering, indexing, storing, and making available the scholarly work of the Portland State University (PSU) community. *PDXScholar* maximizes research impact, facilitates interdisciplinary research, and expands the reach of Portland State University scholarship to researchers worldwide.

Institutional repositories like *PDXScholar* were originally created as a means of providing access to faculty journal articles. While this is an important focus—and one that we continue to emphasize—it has quickly become evident that one of a repository's greatest strength is its ability to provide an access point for original work that has not been published elsewhere. Indeed, this is *PDXScholar's* strength; the most-accessed content in *PDXScholar* is unpublished student and faculty work.

By providing the visibility and accessibility of significant student and faculty work, *PDXScholar* is making it easier for scholars to communicate their knowledge with one another.

Overview

The Portland State University Library Digital Initiatives unit provides faculty, students and staff with opportunities to openly share their work. The Digital Initiatives unit investigates publishing rights, posts articles and supports the publication of open textbooks, open access journals and conferences produced by PSU faculty, students and staff. As a result of these efforts, Portland State scholars experience increased dissemination of their work and researchers' worldwide benefit from and build upon PSU research. To accommodate the diverse range of goals and requirements that scholars have when deciding how best to share their work, the Library provides a continuum of services:

- Rapid distribution: Work is posted in an appropriate *PDXScholar* collection; no formal peer review or editorial assistance is provided. *Common uses:* Student coursework or theses/dissertations; faculty articles previously published in scholarly journals; faculty presentation materials, conference papers, or other informal scholarly work.

- Journal publishing: Journals are published through the *PDXScholar* platform, but editors retain independent control of content and peer review processes. All work submitted to a journal is reviewed, accepted and published according to the journal's specific policies.

- Textbook publishing: Textbooks are distributed in digital format through *PDXScholar*, with the option of providing fee-based print-on-demand copies through a preferred vendor. No formal peer review or substantive editorial assistance is currently provided by the Library.

- Conference support: For academic meetings or conferences hosted at PSU or in conjunction with a University department or unit, a conference website may be created within *PDXScholar*. Formal peer review tools are available for the submission/review/selection of conference presentations, but review must be managed by the conference organizers.

PDXScholar provides a reliable, persistent means of access to student papers and provides an opportunity for authors to have their work published in peer-reviewed journals. Portland State University Library is committed to disseminating diverse and significant scholarly and creative work in ways that are meaningful to authors – and that are visible and accessible to those who will benefit from that work.

The Library works with PSU authors and their collaborators to identify appropriate strategies for distributing their original works.

By the Numbers

2,766

New items added to *PDXScholar* from January 1, 2014 - December 31, 2014

6,685

Items in *PDXScholar* as of January 1, 2015

342,344

Cumulative full-text downloads as of January 1, 2015

72

Average downloads per item as of January 1, 2015

Measure of Use

Total Downloads

There were *342,344* full-text downloads from *PDXScholar* in 2014.

Top 10 collections, 2014

Collections	Downloads
Dissertations and Theses	156,554
McNair Scholars Online Journal	14,158
Urban Studies and Planning Faculty Publications and Presentations	12,216
University Honors College Theses	12,114
Institute for Sustainable Solutions	11,332
Young Historians Conference	10,807
Physics Faculty Publications and Presentations	9,943
Civil and Environmental Engineering Faculty Publications and Presentations	5,592
Environmental Science and Management Faculty Publications and Presentations	3,253
Biology Faculty Publications and Presentations	2,986
Master of Urban and Regional Planning Workshops Projects	2,468

Top 20 Items, 2014

Item Title	Downloads
Brew to Bikes: Portland's Artisan Economy	5,741
Social control theory and delinquency	3,891
At the End of the Peninsula	3,725
Open Innovation and Strategy	3,394

Understanding the Emission from Semiconductor Nanoparticles	3,357
Planetary Boundaries: Exploring the Safe Operating Space for Humanity	3,338
Pharo by Example	3,328
Apatite Crystal Populations of the 1991 Mount Pinatubo Eruption, Philippines: Implications for the Generation of High Sulfur Apatite in Silicic Melts	3,069
Parental Advisory Explicit Lyrics: A Case Study of Music Censorship and Suppression in America	2,929
The Representation of Women in Comic Books, Post WWII Through the Radical 60's	2,707
The Value of New Jersey's Ecosystem Services and Natural Capital	2,666
Addressing Automated Adversaries of Network Applications	1,824
Dark Current Measurements in a CMOS Imager	1,757
On the Origins of Negative Attitudes Towards People With Disabilities	1,545
Joint Angle Tracking with Inertial Sensors	1,480
The Frequency and Use of Lexical Bundles in Conversation and Academic Prose	1,470
Women of the Scientific Revolution: The Forgotten Scholars	1,359
Rural Revolution: Documenting the Lesbian Land Communities of Southern Oregon	1,350
Beyond GDP: The Need for New Measures of Progress	1,346
Measurement and modeling of passive surface mount devices on FR4 substrates	1,317

The 20 most-downloaded items in *PDXScholar* for 2014 represent the diversity of participants in the Library's repository and publishing program. Faculty (9), graduate students -- Electronic Theses and Dissertations (8), undergraduate students (2), undergraduate journals (1) are all represented in the top 20.

Visitor Profile

PDXScholar uses Google Analytics to track online site visits and search activity. While Google does not capture full-text downloads, the information it provides about page views, visitors, and search terms creates a useful demographic profile of *PDXScholar* users.
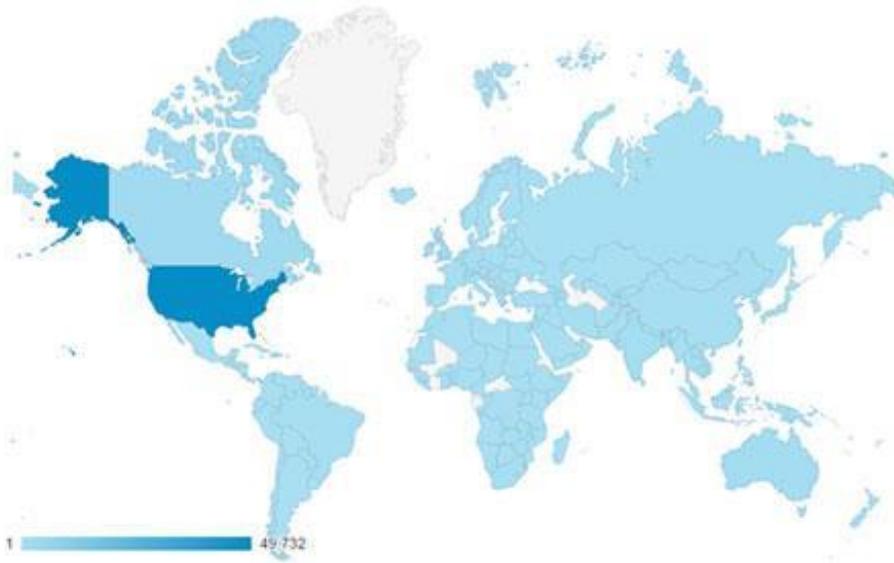
Sessions: 79,910

Users: 60,069

Pageviews: 249,139

Visits: International Distribution (top 10)
Although the majority of visits to *PDXScholar* come from within the U.S., there is a significant number of non-US researchers discovering and accessing *PDXScholar* titles.

United States: 51,058
United Kingdom: 3,383
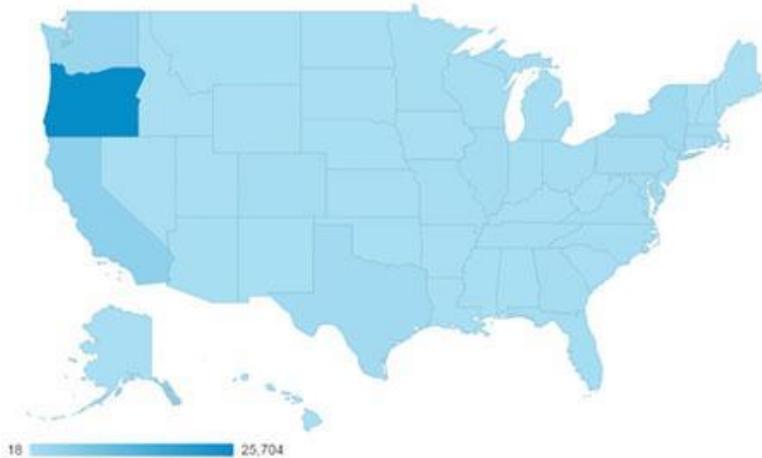Canada: 2,386
Australia: 1,716
India: 1,596
Germany: 1,377
China: 967
Netherlands: 807
Philippines: 801

Visits: United States Distribution (Top 10)

Oregon: 26,261
California: 4,384
Washington: 2,603
New York: 1,701
Texas: 1,307
Illinois: 877
Pennsylvania: 866
Massachusetts: 849
Florida: 799
Virginia: 732

New Visitors vs. Returning Visitors
PDXScholar continues to maintain a relatively high percentage of new visitors, which is a good indication that the repository content is visible to new users.
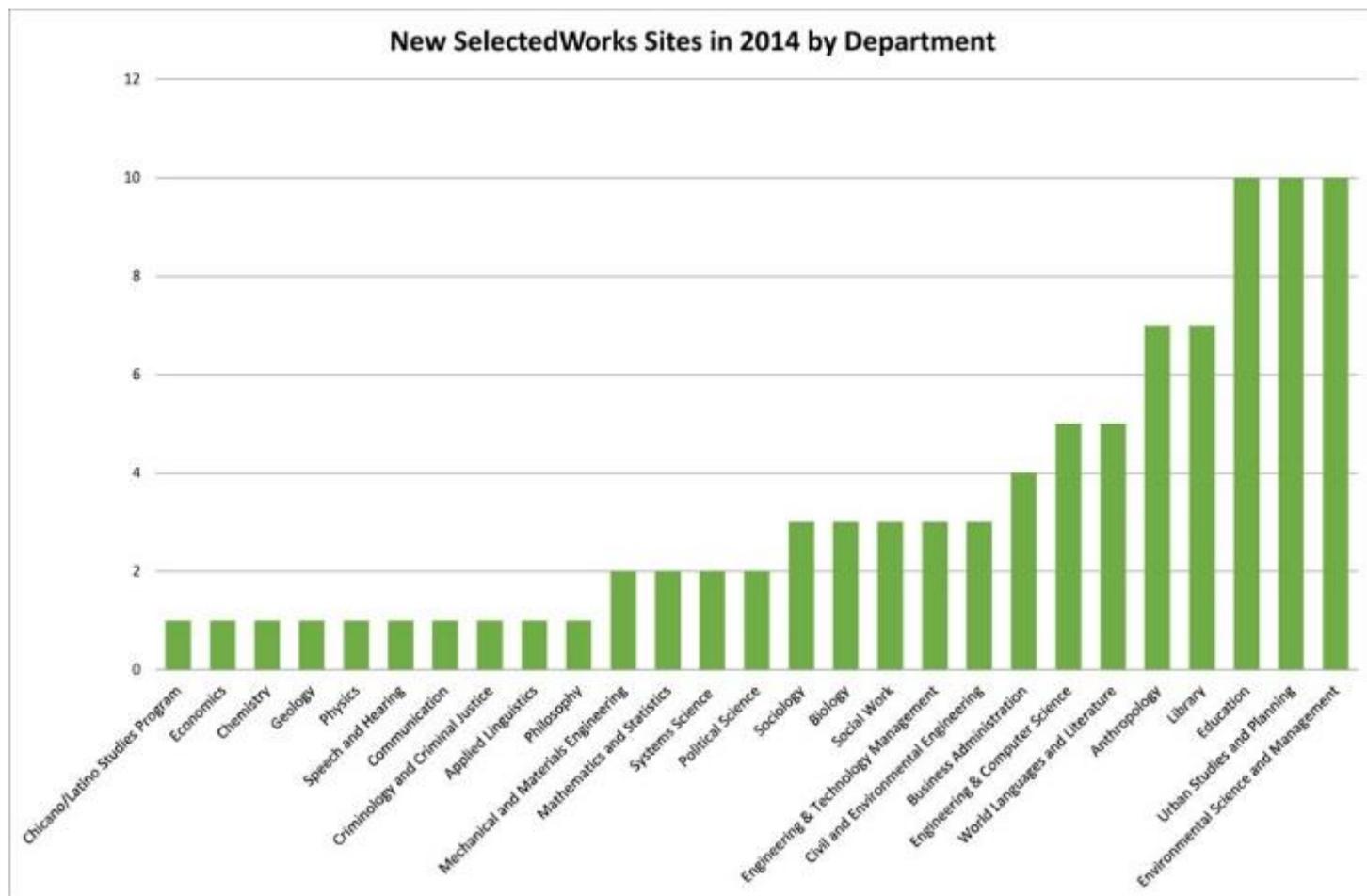
New: 59,567 (74.5%)
Returning Visitors: 20,343 (25.5%)

How Do They Find Us?
A sample of Google search queries that resulted in *PDXScholar* items being at the top of the results list: climate change hydrologic, open innovation; planetary boundaries; open innovation and strategy; intercultural communication; classroom management; early childhood transition; a safe operating space for humanity; beyond gdp; children and smartphones; and women in prison.

Initiatives

SelectedWorks
SelectedWorks is a service that creates author profiles on custom web pages and tracks document use through download reports. PSU faculty members can have custom web pages to store, manage, and highlight scholarship. Authors decide what to include in SelectedWorks profiles; options include a profile photo, introductory paragraph (brief bio or personal information), complete CV, contact information, honors and awards, areas of expertise, and courses taught. There is a real advantage in setting up a SelectedWorks profile: Google's search algorithm generally favors SelectedWorks profiles over personal websites. The Library created 91 SelectedWorks author profiles in 2014. There are currently 142 total SelectedWorks profiles.

Open Textbooks
Textbooks provide the opportunity for broader and deeper coverage of a topic than do scholarly articles or presentations. Open textbooks are distributed in digital format through *PDXScholar*, with the option of providing fee-based print-on-demand copies through a vendor. No formal peer review or substantive editorial assistance is currently provided by the Library. Page-flipping software was added in 2014.

The Library supports reducing higher education expenses for students and helping authors publish open textbooks. The pilot project, PDX Open, funded by the Provost's Challenge reTHINK PSU project, resulted in the publication of four open access textbooks for the following courses:

University Studies 231 *Gender and Sexualities Sophomore Inquiry*
Urban Studies Planning 531 *GIS for Planners*
Japanese 399 *Preadvanced Japanese*
Mathematics 311 *Introduction to Mathematical Analysis I*

This project reduced the number of textbooks students enrolled in these classes need to purchase and has allowed the Library to lay the foundation to support for open access textbook publishing.

More Information: Open Access Textbooks

Journals
Journals are published through the *PDXScholar* platform, but editors retain independent control of content and peer review processes. All work submitted to each journal is reviewed, accepted, and published according to the journal's specific policies.

In February 2014, Berkeley Electronic Press eliminated the set-up fees for journals, allowing the Library to expand its journal publishing services. In June 2014, the University Honors College published the first student-run, peer-reviewed, open-access undergraduate academic journal, entitled *Anthós*. *Anthós* will be published yearly.

Tracking Conversations
Measuring the impact or value of scholarly articles can be difficult. Measurements based solely on citation counts provides an incomplete view of impact. To address this, the Library implemented *Altmetric*, which tracks downloads, references in social media, and other indicators of the conversation surrounding a scholarly article. All articles in *PDXScholar* with a DOI will display *Altmetric* results.

The Library also became a member of CrossRef, the official DOI registration agency for scholarly and professional publications. The Library now has the capability of assigning DOIs to journals published in

PDXScholar. This service will allow editors and authors to track how their work is getting cited and used.

Two student journals – *Anthós* and *McNair Scholars Online Journal* – were registered through the Library of Congress and have assigned ISSNs. (ISSN is a unique international standard serial assigned to a journal title.)

Conferences

Although conference content is integrated into the *PDXScholar* platform, it represents a distinct service that the Library provides to the University community. Through *PDXScholar*, the Library is able to create uniquely branded websites to host conference information, schedules, and programs. This service is offered to conferences that are hosted on Portland State campus, or to conferences organized by Portland State faculty or staff.

While conference organizers are encouraged to ask and require their presenters to archive their materials (papers, presentation slides, and conference proceedings) on the conference site in *PDXScholar*, often the conference site will only include schedules, presentation titles, presenters' names and affiliations, and abstracts. Providing persistent access to this information helps facilitating scholarly communication.

The following conferences currently host their material in *PDXScholar*:

- **Student Research Symposium**: an annual event of undergraduate and graduate students, who showcase research projects from a variety of University departments and programs.
- **Young Historians Conference**: an annual event co-sponsored by Portland State University's Challenge Program and History Department.

In 2015, the Library is looking to expand its conference services by identifying conferences that are happening on campus as a way to continually expand this collection.

Noteworthy Projects

Undergraduate Honors Theses
In January 2014 Undergraduate Honors students started submitting their theses directly to *PDXScholar*. Students work with the advisor directly within the system and can track revisions and approval through the easy, online interface, which includes automatic notifications when changes are made. Here is what one faculty member wrote:

> *PDXScholar* has radically (and positively) transformed how we collect, review and make Honors thesis projects accessible to our own students and to the public! The database has been critical in improving the student and faculty experience of undergraduate Honors research.
>
> Ann Marie Fallon, Director and Professor of Humanities and International Studies, Urban Honors College

Theses and Dissertations Project
The Digital Initiatives unit continued its project to digitize pre-1978 PSU Master's theses, Dissertations and Practicum Reports.

In 2014, 305 items were digitized and added to *PDXScholar*. To date, 583 theses, dissertations and practicum reports have been digitized; 212 remain to be digitized. Original cataloging and electronic resource records have been completed for 185 items and continue to be added on a regular basis, making online access available through the Library catalog as well as through *PDXScholar.*

Master of Urban and Regional Planning Workshop Projects
In collaboration with the Dirce Moroni Toulan Library of Urban and Public Affairs at PSU, the Library digitized the historic student-created city and community plans (1977-2002). *PDXScholar* already housed the more recent Master of Urban and Regional Planning (MURP) Workshop Projects (2003-2014), and this project created a more complete and comprehensive collection. Many of these projects have shaped the Portland and Oregon region. Topics range from a 1977 Gladstone Comprehensive Policy Plan, to multiple reports on car sharing in Portland, plans regarding the use of natural resources in Pleasant Valley, *A Plan for Evaluating the Columbia Gorge Scenic Area*, and more.

Oregon Sustainable Community Digital Library Migration
The Oregon Sustainable Community Digital Library (OSCDL) provides a central online repository for the collection of 1,400 key urban planning documents on the Portland Metropolitan area. The collection includes literature, planning reports, digital images, maps, RLIS (Regional Land Information System)

geographical data, and more from Portland State University, Metro, TriMet, and other municipal and non-profit agencies.

In 2015, this collection will move from its current website into *PDXScholar*.

Goals for 2015

1. **Outreach**
   While developing the capacity and intellectual infrastructure to support expanded services is important, it is also vital to continue outreach to faculty and students in order to communicate the opportunities and benefits of participating in both the Library repository and publishing programs. Outreach efforts:

   a. Work with Subject Liaisons, Scholarly Communication Coordinator, Data Management Coordinator, and Communications and Outreach Librarian to develop additional outreach strategies for Library's suite of services.
   b. Promote archiving opportunities to new faculty.
   c. Offer consultations and presentations to faculty and students regarding the benefits of using/creating open educational resources.

2. **Greater Balance**
   Systematically expand coverage of PSU departments/units to achieve greater balance of scholarship and research by:
   a. Performing an environmental scan and identifying top publications for inclusion.
   b. Building stronger relationships with faculty and liaisons to ensure that we are notified when participating authors publish new content.
   c. Working directly with PSU Centers and Institutes to increase coverage.
   d. Complete the OSCDL migration.

3. **Expand Journal Publishing**
   Work to expand journal publishing by supporting the creation, management, distribution, and preservation of a variety of online publications, including open access journals, conference proceedings, monographs, and other scholarly content.

4. **Expand Conference Inclusion**
   Work to increase conference coverage and capture the valuable output from Portland State University's events, presentations and proceedings.

5. **Expand Open Textbook Publishing**
   Help lower the cost of higher education by publishing textbooks or other educational resources in *PDXScholar*.

6. **Archive Data Sets**
   Provide a local archive storage option for sharing data sets; create project-specific data collections, departmental data, or data as supplemental files.

7. **CVs and SelectedWorks**
   Continue ingesting works by processing author CVs and creating author profiles in SelectedWorks.

8. **Digitize Dissertations**
   Continue digitizing older dissertations and theses.

The rapid evolution of library-based repository and publishing programs makes it difficult to anticipate all opportunities (and challenges) that the next year will hold. As models change, however, the Library will remain committed to providing open and equitable access to useful knowledge.