
Let's Talk About What Open Access and OpenBU Can Do For You

Ellen Phillips, Open Access Specialist

Eleni Castro, OpenBU & Electronic Theses & Dissertations Program Librarian

Digital Scholarship Services, BU Libraries

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What is Open Access?

Open Access is *access to literature* that is digital, online, **free of charge**, and **free of most copyright and licensing issues.**

- Peter Suber



 **OPEN ACCESS**



Recent History of Open Access

2001	Creative Commons licenses released to public.
2003	PLoS publishes its first OA journal, PLoS Biology.
2008	Research funded by the NIH must be available to the public free through PubMed Central within 12 months of publication.
2017	Fair Access to Science and Technology Research Act (FASTR) bill reintroduced in Congress. Currently being sponsored in the Senate by Elizabeth Warren (D-MA).



What can OA Do for You?

- Increased rate of citation
 - Boost your profile as a researcher
 - Preserve your scholarly record by archiving in a subject or institutional repository
 - Protect your rights to your intellectual property
 - Obtain article-level metrics about your publications.
-



Open Access: Key Terminology

Levels/Types/Publisher Policies

Gratis	Online access free of charge
Libre	Online access free of charge plus various additional usage rights (typically a Creative Commons license).
Green	(Also Blue, Yellow, White & Gold). Refers to publisher self-archiving policies.
Gold	Publication in an open access journal

~ Visit bu.edu/disc/ for more information about Open Access Publishing. ~



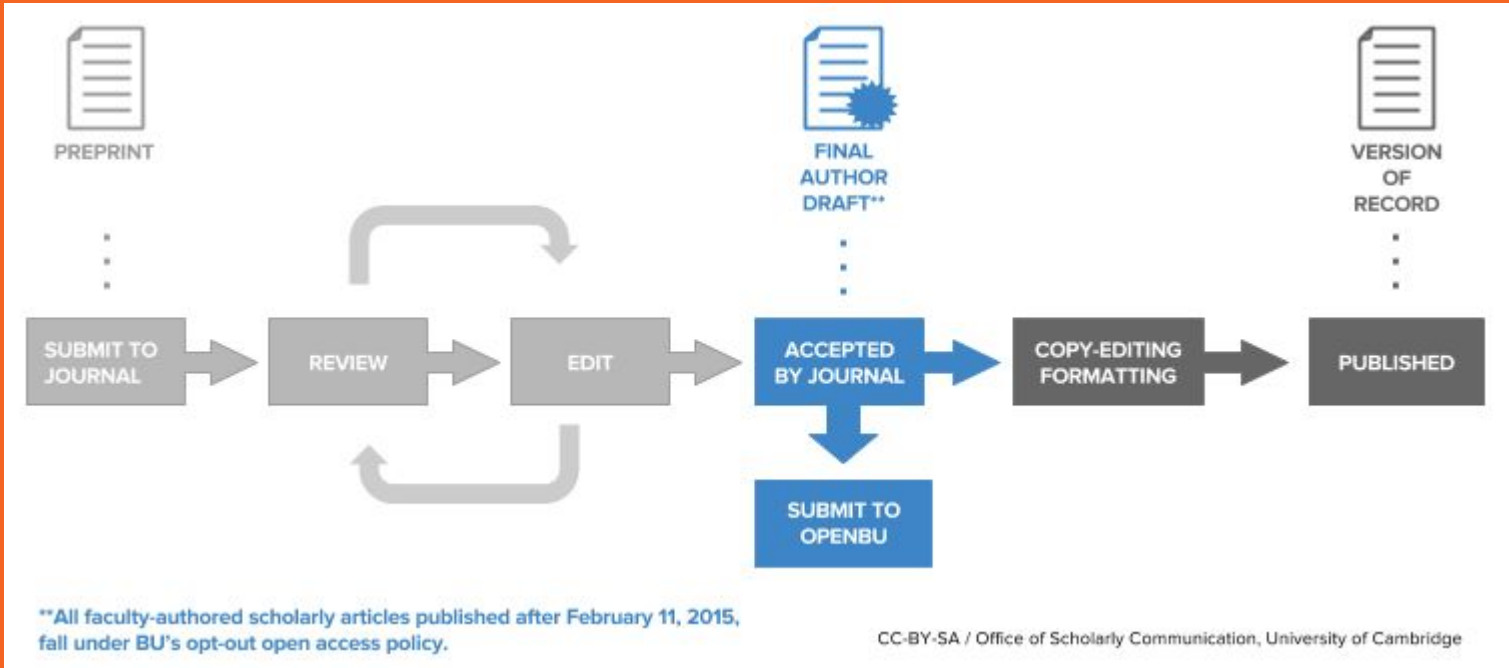
Open Access: Key Terminology

Manuscript Versions

Pre-print	Your own version of the article as it existed when it was submitted for peer review.
Post-print	Your own version of the article after revisions following peer review. Also called final author draft.
Publisher Version	Version of record. Includes journal formatting (headers and page numbers).

Review definitions online, compare sources, and consider what is relevant to your field.

Lifecycle of a Scholarly Article





Where to Publish?

Journals	Difference between publishing Open Access and an Open Access Journal. Many publishers offer an OA option. Visit bu.edu/DiSc for resources on finding the right journal for your work.
Subject (Disciplinary) Repositories	Some are non-profit: arXiv, bioRxiv. Some are run by government agencies: PubMed Central Others are commercially owned: SSRN, Researchgate.
Institutional Repositories	Seeks to collect and showcase the intellectual output of a college, university or research facility. Example: OpenBU

Resources & Support for your Digital Scholarship

bu.edu/DiSc

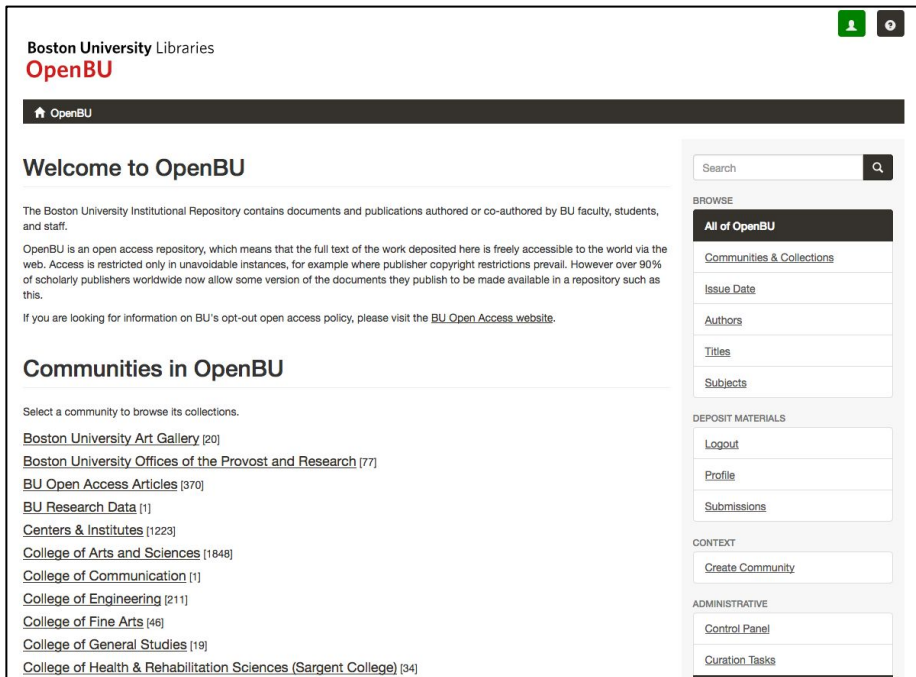
library.bu.edu/openaccess

Contact Digital
Scholarship Services for
individualized help:
disc@bu.edu



What is OpenBU?

Boston University's Institutional Repository



The screenshot shows the OpenBU homepage. At the top left, it says "Boston University Libraries" and "OpenBU". Below that is a navigation bar with "OpenBU" and a home icon. The main content area is titled "Welcome to OpenBU" and contains a search bar, a "BROWSE" section with "All of OpenBU" and sub-links for "Communities & Collections", "Issue Date", "Authors", "Titles", and "Subjects", a "DEPOSIT MATERIALS" section with "Logout", "Profile", and "Submissions", a "CONTEXT" section with "Create Community", and an "ADMINISTRATIVE" section with "Control Panel" and "Curation Tasks". On the left side, there is a list of "Communities in OpenBU" with links and counts for various departments and centers.

Boston University Libraries
OpenBU

OpenBU

Welcome to OpenBU

The Boston University Institutional Repository contains documents and publications authored or co-authored by BU faculty, students, and staff.

OpenBU is an open access repository, which means that the full text of the work deposited here is freely accessible to the world via the web. Access is restricted only in unavoidable instances, for example where publisher copyright restrictions prevail. However over 90% of scholarly publishers worldwide now allow some version of the documents they publish to be made available in a repository such as this.

If you are looking for information on BU's opt-out open access policy, please visit the [BU Open Access website](#).

Communities in OpenBU

Select a community to browse its collections.

- [Boston University Art Gallery](#) [20]
- [Boston University Offices of the Provost and Research](#) [77]
- [BU Open Access Articles](#) [370]
- [BU Research Data](#) [1]
- [Centers & Institutes](#) [1223]
- [College of Arts and Sciences](#) [1848]
- [College of Communication](#) [1]
- [College of Engineering](#) [211]
- [College of Fine Arts](#) [46]
- [College of General Studies](#) [19]
- [College of Health & Rehabilitation Sciences \(Sargent College\)](#) [34]

Search

BROWSE

All of OpenBU

- [Communities & Collections](#)
- [Issue Date](#)
- [Authors](#)
- [Titles](#)
- [Subjects](#)

DEPOSIT MATERIALS

- [Logout](#)
- [Profile](#)
- [Submissions](#)

CONTEXT

- [Create Community](#)

ADMINISTRATIVE

- [Control Panel](#)
- [Curation Tasks](#)

Mission: preserve and disseminate scholarship, as well as creative & research outputs from BU.

Open to BU-affiliates:
→ faculty, staff, and students

Go to: open.bu.edu

What Can I Deposit?

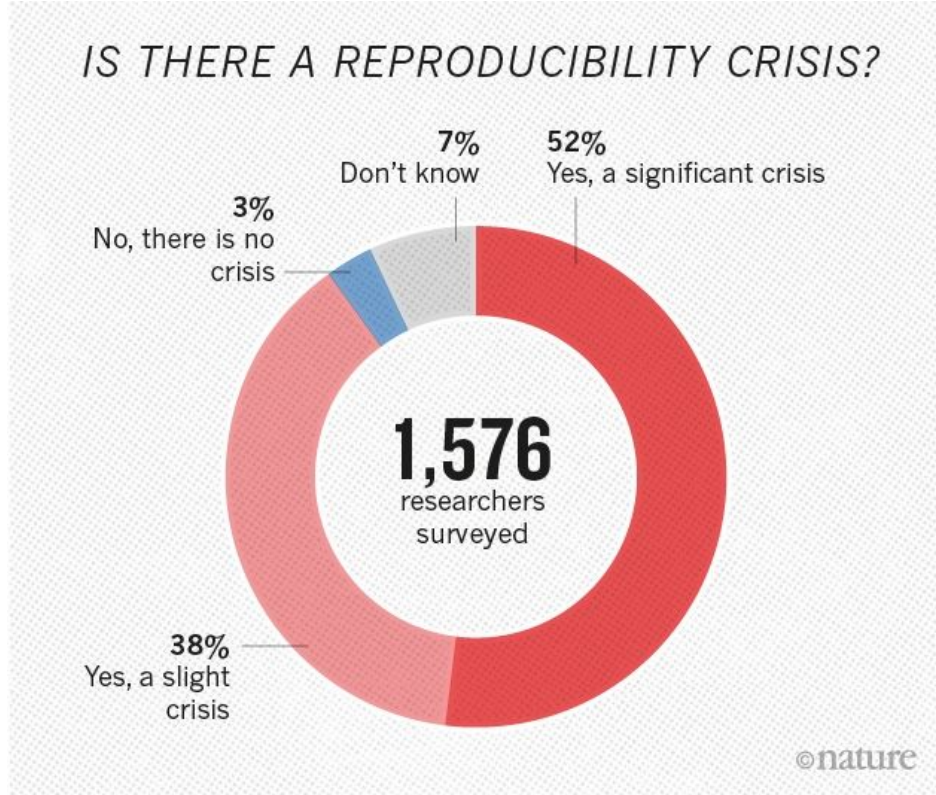
We can handle almost anything

- Theses + Dissertations (automatically deposited from ProQuest)
- Working Papers (Pre-prints)
- Conference Presentations and Posters
- Scholarly Articles (open access*)
- Images, Audio and Video files
- **Datasets and other research outputs (+2GB per file)**
 - Code
 - Software
 - Methods
 - Raw data

*Some publishers may not let you deposit published versions of articles. (check [SHERPA/RoMEO](#))

Why Deposit?

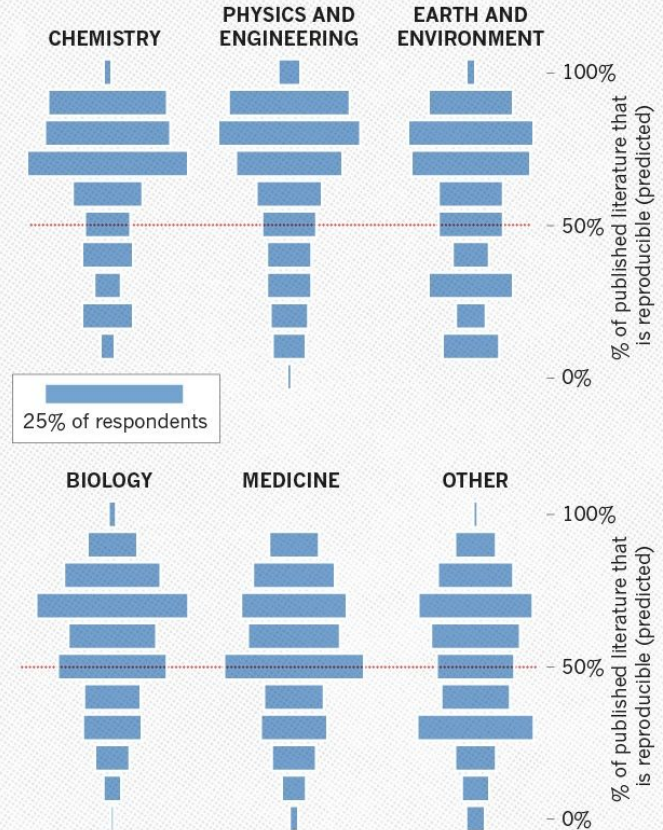
“1,500 scientists lift the lid on reproducibility” (Baker, 2016)



doi:10.1038/533452a

HOW MUCH PUBLISHED WORK IN YOUR FIELD IS REPRODUCIBLE?

Physicists and chemists were most confident in the literature.



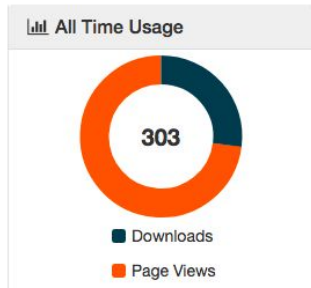
Number of respondents from each discipline:
Biology 703, Chemistry 106, Earth and environmental 95,
Medicine 203, Physics and engineering 236, Other 233

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Benefits to Using OpenBU

- Helps Increase Citation and Reuse (+ Reproducibility of Results)
 - Usage metrics
 - Indexed in Google Scholar
 - Helps w/ Journal and Funder Data Sharing Mandates
 - Permanent Link for Your Research Outputs (no broken links!)
 - Institutionally-backed long term access and preservation
 - Flexible: Make everything open or restrict some files
(you own the rights to distribute, reuse and share your work!)
-

File-level metrics

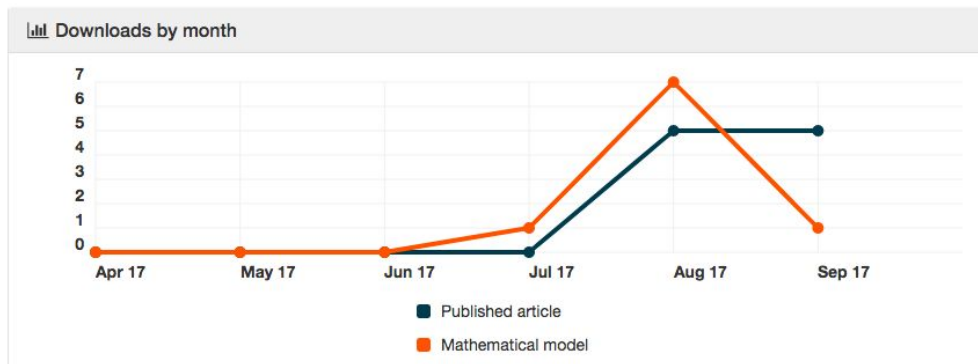
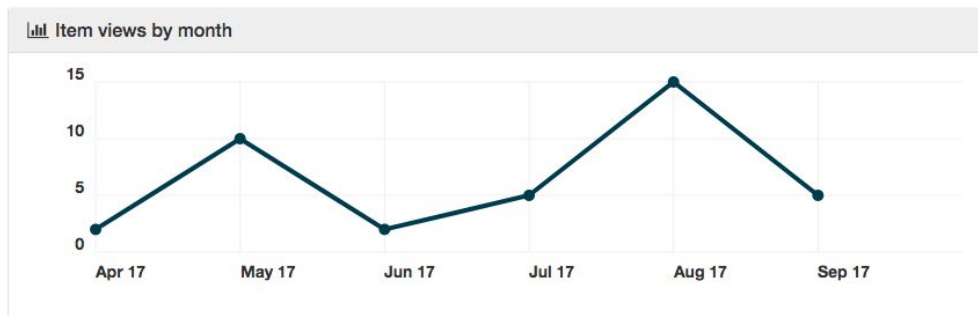


Top countries by item views of the past 6 months

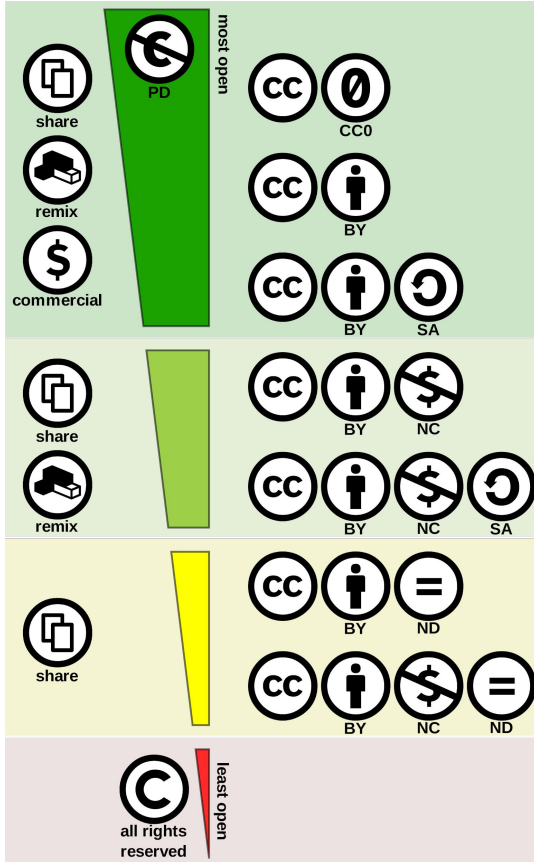
Country	Views
United Kingdom	15
United States	9
Italy	4
China	3
Canada	2

Top countries by downloads of the past 6 months

Country	Downloads
France	7
United Kingdom	6
United States	4
Germany	1
Finland	1



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OpenBU Quick Submission Form

Fill out the form here: <http://bit.ly/2D2xIBN>

- Describe the item (authors, title, date, abstract, etc)
- Include all relevant files (code, methods, data, etc)

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The non-equilibrium statistical physics of stochastic search, foraging and clustering



Permanent Link

<https://hdl.handle.net/2144/27361>

Abstract

This dissertation explores two themes central to the field of non-equilibrium statistical physics. The first is centered around the use of random walks, first-passage processes, and Brownian motion to model basic stochastic search processes found in biology and ecological systems. The second is centered around clustered networks: how clustering modifies the nature of transition in the appearance of various graph motifs and their use in modeling social networks. In the first part of this dissertation, we start by investigating properties of intermediate crossings of Brownian paths. We develop simple analytical tools to obtain probability distributions of intermediate crossing positions and intermediate crossing times of Brownian paths. We find that the distribution of intermediate crossing times can be unimodal or bimodal. Next, we develop analytical and numerical methods to solve a system of N diffusive searchers which are reset to the origin at stochastic or periodic intervals. We obtain the optimal criteria to search for a fixed target in one, two and three dimensions. For these two systems, we also develop efficient ways to simulate Brownian paths, where the simulation kernel makes maximal use of first-passage ideas. Finally we develop a model to understand foraging in a resource-rich environment. Specifically, we investigate the role of greed on the lifetime of a diffusive forager. This lifetime shows non-monotonic dependence on greed in one and two dimensions, and surprisingly, a peak for negative greed in 1d. In the second part of this dissertation, we develop simple models to capture the non-tree-like (clustering) aspects of random networks that arise in the real world. By 'clustered networks', we specifically mean networks where the probability of links between neighbors of a node (i.e., 'friends of friends') is positive. We discuss three simple and related models. We find a series of transitions in the density of graph motifs such as triangles (3-cliques), 4-cliques etc as a function of the clustering probability. We also find that giant 3-cores emerge through first- or second-order, or even mixed transitions in clustered networks.

Collections

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Date Issued

2017

Author

Bhat, Uttam



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We will then review your submission and archive it on OpenBU.

Thank You!

Questions?

Visit <http://bu.edu/disc> for more info.

Contact us at:

Eleni Castro elenic@bu.edu

Ellen Phillips ephillip@bu.edu
