Resources and Reading

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Contributions are very welcome - please feel free to add missing references or links.

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Articles Related to Reproducibility in Computational Science

C. Savage and A. Vickers, Empirical Study of Data Sharing by Authors Publishing in PLoS Journals (http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0007078) , 2009. (Some reactions to the article (http://www.stat.columbia.edu/~cook/movabletype/archives/2009/09/we_received_onl.html))

S. Fomel and J. Claerbout Reproducible Research (http://csdl2.computer.org/comp/mags/cs/2009/01/mcs2009010005.pdf) , 2009.

D. Donoho et al. Reproducible Research in Computational Harmonic Analysis (http://www.computer.org/portal/web/csdl/doi/10.1109/MCSE.2009.15) , 2009. (PDF (http://www.stanford.edu/~arianm/Reproducible_research.pdf))

I. Manolescu et al., Repeatability & Workability Evaluation of SIGMOD 2009 (http://cs.nyu.edu/cs/faculty/shasha/papers/SIGMOD-2009-RWE.pdf) , 2009.

R. LeVeque, Python Tools for Reproducible Research on Hyperbolic Problems, Computing in Science and Engineering, vol. 11, no. 1, pp. 19-27, Jan./Feb. (http://www.amath.washington.edu/~rjl/pubs/cise09/) , 2009. link with tools (http://www.amath.washington.edu/~rjl/pubs/cise09)

P. Vandewalle, J. Kovačević, and M. Vetterli, "Reproducible Research in Signal Processing - What, Why, and How" (http://rr.epfl.ch/17/) , 2009.

J. Ioannidis et al., Repeatability of Published Microarray Gene Expression Analyses (http://www.ncbi.nlm.nih.gov/pubmed/19174838) , 2008.

K. Baggerly and K. Coombes, Deriving Chemosensitivity from Cell Lines: Forensic Bioinformatics and Reproducible Research in High-Throughput Biology (http://www.e-publications.org/ims/submission/index.php/AOAS/user/submissionFile/5816?confirm=cfad51b7) , 2009.

G. Baiocchi Reproducible Research in Computational Economics: Guidelines, Integrated Approaches, and Open Source Software (http://www.springerlink.com/content/61221567r7710q38/) , 2007

B. McCullough, Got Replicability? The Journal of Money, Credit and Banking Archive" (http://www.econjournalwatch.org/pdf/McCulloughEconomicsInPracticeSeptember2007.pdf) , 2007.

B. McCullough, McGeary, and Harrison, "Lessons from the JMCB Archive" (http://ideas.repec.org/a/mcb/jmoncb/v38y2006i4p1093-1107.html) , 2006.

R. LeVeque, Wave propagation software, computational science, and reproducible research (http://www.amath.washington.edu/~rjl/pubs/icm06/icm06leveque.pdf) , 2006.

J. Ioannidis, Why Most Published Research Findings Are False (http://www.plosmedicine.org/article/info:doi/10.1371/journal.pmed.0020124) , 2005.

R. Anderson et al. "The Role of Data & Program Code Archives in the Future of Economic Research" (http://www.research.stlouisfed.org/wp/more/2005-014/) , 2005.

A. Rossini, F. Leisch, Literate Statistical Practice (http://www.bepress.com/cgi/viewcontent.cgi?article=1017&context=uwbiostat) , 2001.

D. Donoho, J. Buckheit, WaveLab and reproducible research (http://www-stat.stanford.edu/~donoho/Reports/1995/wavelab.pdf) , 1995.

K. Price, Anything You Can Do, I Can Do Better (No You Can't)... (http://iris.usc.edu/Outlines/papers/1980/price-cvgip-86.pdf) , 1986.

Gary King's links to papers and policies on Data Sharing, Replication, and Informatics (http://gking.harvard.edu/replication.shtml)

Article links on ReproducibleResearch.net (http://www.reproducibleresearch.net/index.php/RR_links#Articles_about_RR_.28chronologically.29)

Sharing in Practice

D. Donoho, How to be a Highly Cited Author in the Mathematical Sciences (http://in-cites.com/scientists/DrDavidDonoho.html) , 2002.

Patterns of information use and exchange: case studies of researchers in the life sciences (http://www.rin.ac.uk/our-work/using-and-accessing-information-resources/disciplinary-case-studies-life-sciences) , Nov 2009.

Reproducibility in the fMRI medical imaging community (http://human-brain.org/imaging.html) .

P. Schofield et al. Post-publication sharing of data and tools (http://www.nature.com/nature/journal/v461/n7261/full/461171a.html) *Nature* 461, 10 September 2009.

H. Piwowar et al. Sharing Detailed Research Data Is Associated with Increased Citation Rate (http://www.plosone.org/article/info:doi%2F10.1371%2Fjournal.pone.0000308) "PLoS ONE" 2007.

WaveLab (http://www-stat.stanford.edu/~wavelab) , reproducible research in wavelets;

SparseLab (http://sparselab.stanford.edu) , reproducible research in sparse modeling and compressed sensing;

Molecular biology database policies at a glance (http://shirleyfung.com/mbdb/filter.php?by=alltab) - information compiled by Melanie Dulong de Rosnay

Legal Frameworks

Federal Research Public Access Act of 2009 S. 1737 (http://www.arl.org/sparc/advocacy/frpaa/)

V. Stodden, Enabling Reproducible Research: Licensing for Scientific Innovation (http://www.ijclp.net/issue_13.html) , 2009.

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The OECD Working Group on Neuroinformatics Neuroscience Data and Tool Sharing: A Legal and Policy Framework for Neuroinformatics (http://www.tnb.ua.ac.be/publications/full//15046238/EckersleyNI03.pdf) *Neuroinformatics* 1(2), 2003.

Archiving

P. Bourne et al., Open access: taking full advantage of the content (http://papers.gersteinlab.org/e-print/killapp/preprint.pdf) , 2008.

B. McCullough, Do economics journal archives promote replicable research? (http://faculty.lebow.drexel.edu/harrisont/forthcoming/stlf-final_cje_2008.pdf) , 2008.

M. Gerstein et al., Structured digital abstract makes text mining easy (http://papers.gersteinlab.org/e-print/SDA/preprint.pdf) , 2007.

H. Gibbs, DISC-UK DataShare: State-of-the-Art Review (http://www.disc-uk.org/docs/state-of-the-art-review.pdf) , 2007.

M. Seringhaus et al., Publishing perishing? Towards tomorrow's information architecture (http://papers.gersteinlab.org/e-print/infoarch/preprint.pdf) , 2007.

Announcement of the Data Conservatory Project, Johns Hopkins University (http://eng.jhu.edu/wse/at-the-school/johns-hopkins-university-sheridan-libraries-awarded-20-million-from-the-nsf/) .

M. Barinaga, Still Debated, Brain Image Archives Are Catching On (http://www.sciencemag.org/cgi/content/summary/300/5616/43) , Science, 2003.

H. Piwowar, Data Sharing (http://www.researchremix.org/wordpress/publications/) .

G. Steinhart, DataStaR: An Institutional Approach to Research Data Curation (http://www.iassistdata.org/publications/iq/iq31/iqvol313steinhart.pdf) , 2007.

G. Steinhart et al., Establishing Trust in a Chain of Preservation (http://www.dlib.org/dlib/september09/steinhart/09steinhart.html) , D-Lib Magazine, 2009.

Blogs and Other Sources

Nature Blog 2008: The Great Beyond: Stiglitz and Sulston: Who Owns Science? (http://blogs.nature.com/news/thegreatbeyond/2008/07/stiglitz_and_sulston_who_owns.html)

University of Manchester Press Release 2008: Nobel duo ask: "Who Owns Science?" (http://www.manchester.ac.uk/aboutus/news/archive/list/item/?id=3805&year=2008&month=07)

MATLAB Blog 2009: Reproducible Research in Signal Processing (http://blogs.mathworks.com/steve/2009/05/05/reproducible-research-in-signal-processing/)

The bioinformatic-journal/software hydrid (http://boscoh.com/protein/the-bioinformatic-journalsoftware-hydrid) , 2009.

ITConversations interview with Robert Barga on Trident (provenance) (http://perspectives.on10.net/blogs/jonudell/Roger-Barga-on-Trident-a-workbench-for-scientific-workflow/)

ITConversations interview with Victoria Stodden on Reproducibility and Science Commons (http://itc.conversationsnetwork.org/shows/detail4255.html) , 2009.

OpenScience.org (http://www.openscience.org/blog/)

ReproducibleResearch.net (http://www.reproducibleresearch.net)

Tools and Technologies

R. LeVeque, Python Tools for Reproducible Research on Hyperbolic Problems, Computing in Science and Engineering, vol. 11, no. 1, pp. 19-27, Jan./Feb. (http://www.amath.washington.edu/~rjl/pubs/cise09/) , 2009.

Gentleman et al., Bioconductor: Open Software Development for Computational Biology and Bioinformatics (http://www.biomedcentral.com/1465-6906/5/R80/abstract) , 2004.

M. Hildebrandt, Profiling the European Citizen: Cross-disciplinary Perspectives (http://works.bepress.com/mireille_hildebrandt/1/) , 2008.

V. Stodden, Legal Attribution and Academic Citation: The Promise of Facilitated CC License Compliance (http://www.stanford.edu/~vcs/talks/CCTechSummitVCS06262009.pdf) , 2009.

Privacy and Data Anonymization (Arvind Narayanan's blog) http://33bits.org/

Reproducibleresearch.net's list of software and supporting documentation (http://www.reproducibleresearch.net/index.php/RR_links#Tools)

Electronic Lab Notebook (http://scholarship20.blogspot.com/2009/10/ecat-online-electronic-lab-notebook-for.html)

Policies on Data and Code Sharing

Funder Policies

NIH Oct 19 2009 announcement on data sharing policy (http://grants.nih.gov/grants/guide/notice-files/NOT-HG-10-006.html)

Journal Policies

American Economic Review (http://www.aeaweb.org/aer/data_availability_policy.html) , Data Submission Requirement.

ACM Transactions on Mathematical Software (http://www.cs.kent.ac.uk/projects/toms/AlgPolicy.html) Algorithms Policy.

Wouters et al., The Public Domain of Digital research Data (http://dataaccess.ucsd.edu/PromiseandPracticeDEF.pdf) , 2003. Includes a discussion of the controversial Journal of Cognitive Neuroscience's 2000 requirement of fMRI data submission.

Declarations

Declarations in Support of Open Access (http://oad.simmons.edu/oadwiki/Declarations_in_support_of_OA)

Arzberger et al., An International Framework to Promote Access to Data (http://www.sciencemag.org/cgi/content/summary/303/5665/1777?ijkey=sgWI1mlejCudY&keytype=ref&siteid=sci) , Science, 2004.

CODATA Proceedings on Scientific and Technical Data (http://www.codata.org/codata02/) , 2002.

Data Sharing and the Human Genome Sequencing Community

Sulston's 2002 account of the story of the 1996 Bermuda Declaration: "Heritage of Humanity" (http://mondediplo.com/2002/12/15genome)

The Toronto Statement (http://www.nature.com/nature/journal/v461/n7261/box/461168a_BX1.html) , 2009.

Policies of Release of Human Genome Sequence Data (http://www.ornl.gov/sci/techresources/Human_Genome/research/bermuda.shtml)

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