

Conventional and innovative methods of research assessment

Workshop

15 November 2017

Agenda

14:05 - 14:20 Welcome & Round of introductions

14:20 - 14:40 A review of research assessments principles (Dr Birgit Schmidt)

14:40 - 15:00 Discussion

15:00 - 15:20 Data sources, metrics and methods (Najko Jahn)

15:20 - 15:40 Demo

15:40 - 16:00 Discussion

16:00 - 16:30 Coffee break

16:30 - 17:00 Exercises (and report of outcomes)

17:00 - 17:15 Summary & Close



Dr Birgit Schmidt

Project Coordinator
Scholarly Communication Researcher

Göttingen State and University Library / Electronic Publishing

Projects, e.g. OpenAIRE, OpenUP, FOSTER, EOSCpilot, ERC Open Science Study

Committees, e.g. LIBER, Knowledge Exchange, Research Data Alliance

Member of EC Expert Group on the Future of Scholarly Publishing and Scholarly Communication

Education: PhD Mathematics, MA LIS

ORCID: orcid.org/0000-0001-8036-5859

Other: @bschmid1

Our back-grounds

- Not research assessment as such but management of research information
- Open Science policies and their implementation, incl. OA monitoring, at institutional, national, European levels
- Data analytics, e.g. in support of institutional information management, proposal writing, benchmarking

Hello
my name is

A review of research assessments principles

Dr. Birgit Schmidt (SUB Göttingen)

How to share and promote your scholarly record?

Data sources, metrics and methods

Overview – Profiles: A typology

PRODUCTIVITY

IMPACT

General Open Access Data & Coding Citation Usage Aggregators

MULTIDISCIPLINARY

ORCID

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Altmetric

SUBJECT-SPECIFIC

philpapers



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INSPIRE
HEP

INSTITUTIONAL

VIVO
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share
discover



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Impactstory



NB: Categories are not mutually exclusive, and, of course, not all profile services are listed!

ORCID

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Scientists: your number is up

ORCID scheme will give researchers unique identifiers to improve tracking of publications.

Decian Butler

30 May 2012

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In 2011, Y. Wang was the world's most prolific author of scientific publications, with 3,926 to their name — a rate of more than 10 per day. Never heard of them? That's because they are a mixture of many different Y. Wangs, each indistinguishable in the scholarly record.

The list of the world's top 100 authors, all of whom show similarly impressive production rates, is a who's who of conflated Zhangs, Lis, Chens, Lees and other Wangs. But this confusing problem could be solved following the launch later this year of the Open Researcher and Contributor ID (ORCID), an identifier system that will distinguish between authors who share the same name.



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id orcid.org/0000-0003-1036-4679

Print view

Also known as
Elina Kolodinska

Country
Latvia

Keywords
nuclear fusion, radiation chemistry, tritium, beryllium

Other IDs
[Scopus Author ID: 21739471400](#)

Education (1) Sort

University of Latvia: Riga, Latvia
2007-10-01 to 2012-10-11 | PhD (Department of Chemistry)
Source: Elina Pajuste Created: 2017-05-24

Employment (1) Sort

University of Latvia: Riga, Latvia
2011-08-01 to present | principal researcher (Institute of Chemical Physics)
Source: Elina Pajuste Created: 2017-05-24

Works (17) Sort

Characterisation and radiolysis of modified lithium orthosilicate pebbles with noble metal impurities
Fusion Engineering and Design
2016 | journal-article
DOI: [10.1016/j.fusengdes.2017.01.008](#)
EID: 2-s2.0-85009785274
URL: [http://www.scopus.com/inward/record.url?eid=2-s2.0-85009785274&partnerID=M...](#)
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Valdis Pirags

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Andris Ambainis

Professor, University of Latvia
Bestätigte E-Mail-Adresse bei lu.lv

[quantum algorithms](#) [quantum computing](#) [quantum information](#) [computational complexity](#)
[theoretical computer science](#)

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Alexei Kuzmin

Institute of Solid State Physics, University of Latvia
Bestätigte E-Mail-Adresse bei cfi.lu.lv

[physics](#) [materials science](#) [nanotechnology](#)

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Rusins Freivalds

Professor of Computer Science, University of Latvia
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TITLE	CITED BY	YEAR
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[Protein measurement with the Folin phenol reagent](#)

OH Lowry, NJ Rosebrough, AL Farr, RJ Randall
Journal of biological chemistry 193 (1), 265-275

211773 1951

[Molecular cloning: a laboratory manual.](#)

J Sambrook, EF Fritsch, T Maniatis
Molecular cloning: a laboratory manual.

180630 1989

[Psychometric theory](#)

JC Nunnally, IH Bernstein, JMF Berge
McGraw-Hill

100044 1967

[Generalized gradient approximation made simple](#)

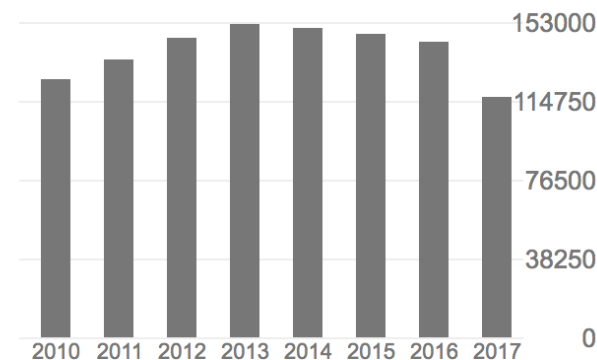
JP Perdew, K Burke, M Ernzerhof
Physical review letters 77 (18), 3865

78431 1996

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Field Of Study

- ☐ Physics
- ☐ Medicine
- ☐ Quantum Mechanics
- ☐ Surgery
- ☐ Diabetes Mellitus

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Renal sympathetic denervation in patients with treatment-resistant hypertension (The Symplicity HTN-2 Trial): a randomised controlled trial.

2010, *The Lancet*, volume 376, issue 9756, pp 1903-1909

Murray D. Esler (Baker IDI Heart and Diabetes Institute), Henry Krum (Monash University), Paul A. Sobotka (Ohio State University), Markus P. Schlaich (University of Western Australia), Roland E. Schmieder (University of Erlangen-Nuremberg) +39 others

Activation of renal sympathetic nerves is key to pathogenesis of essential hypertension. We aimed to assess effectiveness and safety of catheter-based renal denervation for reduction

Citations (1,651) * Download Share Cite

Secondary prevention of macrovascular events in patients with type 2 diabetes in the PROactive Study (PROspective pioglitAzone Clinical Trial In macroVascular Events): a randomised controlled trial

2005, *The Lancet*, volume 366, issue 9493, pp 1279-1289

John A. Dormandy (St George's Hospital), Bernard Charbonnel (University of Nantes), David J A Eckland (Takeda Pharmaceutical Company), Erland Erdmann (University of Cologne), Massimo Massi-Benedetti (University of Perugia) +25 others

Summary Background Patients with type 2 diabetes are at high risk of fatal and non-fatal myocardial infarction and stroke. There is indirect evidence that agonists of peroxisome

Citations (3,856) * Download Share Cite

International network of cancer genome projects

University of Latvia



The University of Latvia (LU) (Latvian: Latvijas Universitāte) is a state-run university located in Riga, Latvia. It was established in

- www.lu.lv
- en.wikipedia.org
- bing.com

Fields of Study: Physics, Medicine, Quantum Mechanics, Surgery, Diabetes Mellitus, Chemistry, Biology, Pathology, Computer Science, Optics, ...

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Computed Tomography — An Increasing Source of Radiation Exposure

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Computed Tomography — An Increasing Source of Radiation Exposure

Nov 29th 2007, *The New England Journal of Medicine*, volume 357, issue 22, pp 2277-2284, DOI: 10.1056/NEJMra072149

David J. Brenner (Columbia University), Eric J. Hall (Columbia University)

The number of computed tomographic (CT) studies performed is increasing rapidly. Because CT scans involve much higher doses of radiation than plain films, we are seeing a marked increase in radiation exposure in the general population. Epidemiologic studies indicate that the radiation dose from even two or three CT scans results in a detectable increase in the risk of cancer, especially in children. This article summarizes the facts about this form of radiation exposure and the implications for public health.

39 REFERENCES7,374 CITATIONS*RELATED PUBLICATIONS

Linked References

Estimated Risks of Radiation-Induced Fatal Cancer from Pediatric CT

2001, *American Journal of Roentgenology*, volume 176, issue 2, pp 289-296

David J. Brenner (Columbia University), Carl D. Elliston (Columbia University), Eric J. Hall (Columbia University), Walter E. Berdon (Boston Children's Hospital)

OBJECTIVE. In light of the rapidly increasing frequency of pediatric CT examinations, the purpose of our study was to assess the lifetime cancer mortality risks attributable to radiation from pediatric CT. MATERIALS AND METHODS. Organ doses as a function of

Citations (3,212) * Download Share Cite

Survival of Patients with Stage I Lung Cancer Detected on CT Screening

2006, *The New England Journal of Medicine*, volume 355, issue 17, pp 1763

Henschke Ci (Icahn School of Medicine at Mount Sinai), Yankelevitz Df (Icahn School of Medicine at Mount Sinai), Libby Dm (Cornell University), Pasmantier Mw (Cornell University), Smith Jp (RAND Corporation) + 1 other

Fields of study: oncology

Citations (1,694) * Source Share Cite

Risk of cancer from diagnostic X-rays: estimates for the UK and 14 other countries

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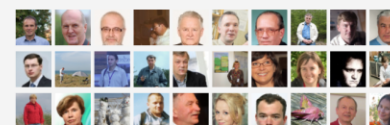
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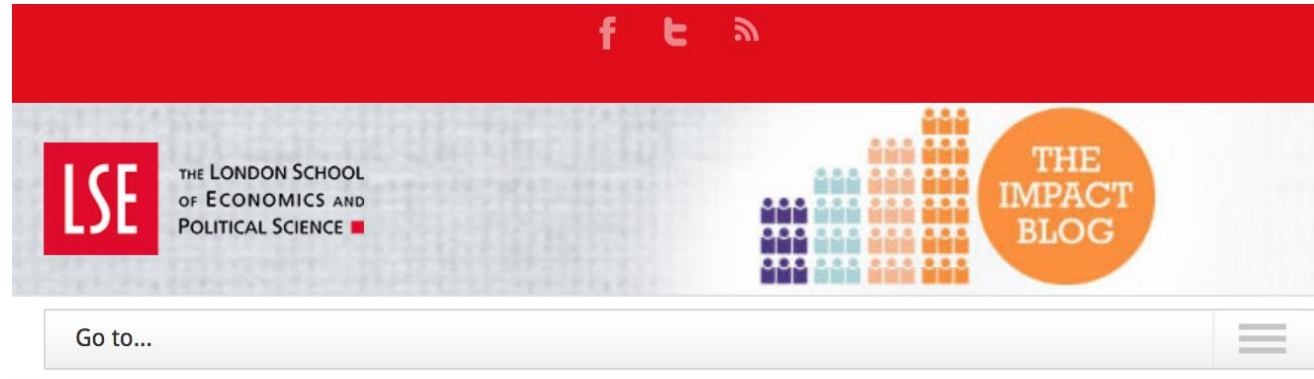
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2011 7th IEEE International Conference on Distributed Computing in Sensor Systems and Workshops (DCOSS); 06/2011
DOI:10.1109/DCOSS.2011.5982206
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ResearchGate - Critics



The ResearchGate Score: a good example of a bad metric



According to ResearchGate, the academic social networking site, their RG Score is “a new way to measure your scientific reputation”. With such high aims, **Peter Kraker**, **Katy Jordan** and **Elisabeth Lex** take a closer look at the opaque metric. By reverse engineering the score, they find that a significant weight is linked to ‘impact points’ – a similar metric to the widely discredited journal impact factor. Transparency in metrics is the only way scholarly measures can be put into context and the only way biases – which are inherent in all socially created

metrics – can be uncovered.

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Balodis, M. (10)

Affiliations

Salaspils, Nucl. Res. Ctr. (2)

Latvia U., ISSP (1)

Latvia U. (1)

PUBLICATIONS AND OUTPUT

Publications Datasets External

1. Levels of 188 Re nucleus populated in thermal neutron capture reaction
2. Gamma bands in doubly odd rhenium and iridium nuclei
3. Levels of two-particle and gamma bands in 192 Ir
4. Low-lying levels of 188 Re nucleus from $\gamma\gamma$ -coincidence measurements
5. New supersymmetric quartet of nuclei in the $A \sim 190$ mass region
6. Transfer and neutron capture reactions to Ir-194 as a test of Unu (6/12) X Upi (6/4) supersymmetry
7. Nuclear structure of Ho-166 studied in neutron capture, (d, p), and (d, He-3) reactions
8. Level scheme of 194 Ir
9. Nuclear structure of 183 W studied in (n, γ), (n, n' γ) and (d, p) reactions
10. Nuclear structure of Tm-170 from neutron-capture and (d, p)-reaction measurements

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Co-Authors

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P.T.Prokofjev.1 (6)
J.Tamberg.1 (5)
R.F.Casten.1 (5)
T.Krasta.1 (5)
P.Prokofjevs.1 (4)
V.G.Bondarenko.1 (4)
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Papers

	All papers	Single authored
All papers	19	0
Book	0	0
ConferencePaper	1	0
Introductory	0	0
Lectures	0	0
Published	18	0
Review	0	0
Thesis	0	0
Proceedings	0	0

STATS

Citations Summary

19 papers found, 19 of them citeable (published or arXiv)


	Citeable papers	Published only
Number of papers analyzed:	19	18
Number of citations:	129	129
Citations per paper (average):	6.8	7.2
h_{HEP} index [?]	8	8

Breakdown of papers by citations:

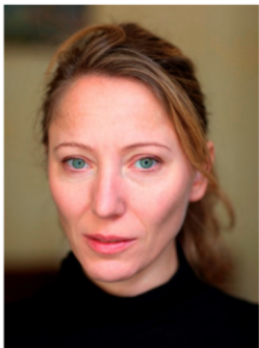
	Citeable papers	Published only
Renowned papers (500+)	0	0
Famous papers (250-499)	0	0
Very well-known papers (100-249)	0	0
Well-known papers (50-99)	0	0
Known papers (10-49)	4	4
Less known papers (1-9)	12	12
Unknown papers (0)	3	2

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[Publications](#) 25

Areas of Specialization

- [Philosophy of Biology](#)
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Areas of Interest

- [Social and Political Philosophy](#)
- [Philosophy of Biology](#)

Maria Kronfeldner

Associate Professor, [Central European University](#) (Department of Philosophy)
PhD, [Universität Regensburg](#) (2007)

[Website](#)

About me

Please see my homepage: https://people.ceu.edu/maria_kronfeldner

Publications

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Books

[Darwinian Creativity and Memetics](#)
[Acumen Publishing](#), 2011.

The book examines how Darwinism has been used to explain novelty and change in culture through the Darwinian approach to creativity and the theory of memes. The first claims that creativity is based on a Darwinian process of blind variation and selection, while the latter claims that culture is based on and explained by units - memes - that are similar to genes. Both theories... ([continued](#))


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Published articles

[Divide and conquer: The authority of nature and why we disagree about human nature](#)
In *Why we disagree about human nature*, Oxford University Press, forthcoming.

The term 'human nature' can refer to different things in the world and fulfil different epistemic roles. Human

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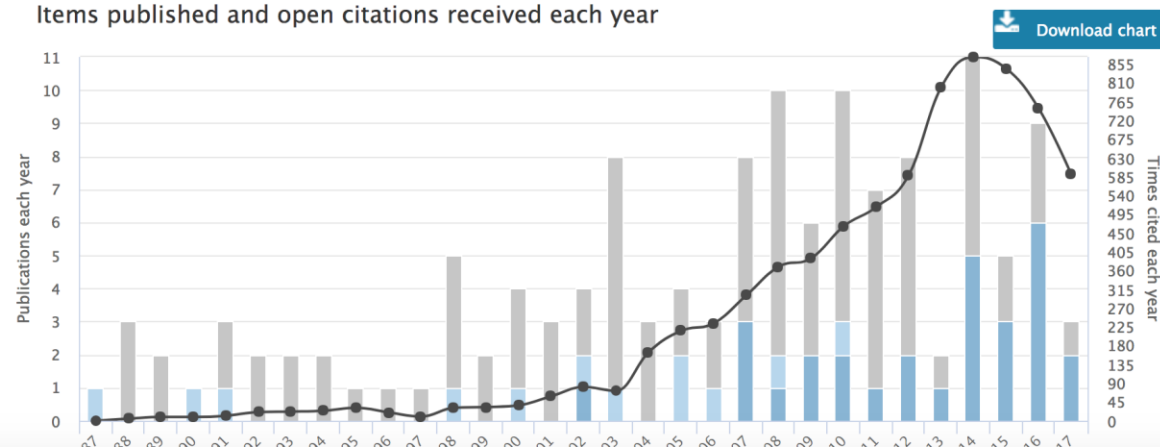
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[The genome of the recently domesticated crop plant sugar beet \(Beta vulgaris\)](#)

2013 *Nature*

132

[Crop wild relative populations of Beta vulgaris allow direct mapping of agronomically important genes.](#)


2017

42



[The genome of the mesopolyploid crop species Brassica rapa](#)

2011 *Nature Genetics*


DEPSY – software contributions





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99 percentile impact
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
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
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19 research software packages shared on CRAN




  **knitcitations**  by Boettiger, Hughitt, Rinker, and 6 others
94 Provides the ability to create dynamic citations in which the bibliographic information is pulled fr...

  **rplos**  by Ram, Chamberlain, Boettiger, and 5 others
95 A programmatic interface to the 'SOLR' based search 'API' (<http://api.plos.org/>) provided by the Pub...


  **treebase**  by Lang, Boettiger, Chamberlain, and 1 others
76 Interface to the API for 'TreeBASE' (<http://treebase.org>) from 'R'. 'TreeBASE' is a repository of us...

  **pmc**  by Boettiger
46 Monte Carlo based model choice for applied phylogenetics of continuous traits. Method described in ...




  **rfishbase**  by Lang, Chamberlain, Wainwright, and 7 others
92 A programmatic interface to <http://www.fishbase.org>, re-written based on an accompanying 'RESTful' A...


  **rfigshare**  by Hart, Chamberlain, Ram, and 2 others
90 An interface to 'figshare' (<http://figshare.com>), a scientific repository to archive and assign 'DOI...

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2,955 contributions in the last year

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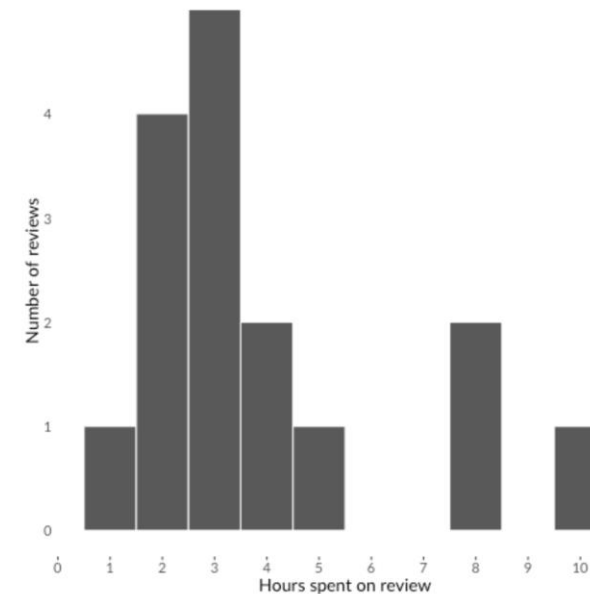
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<https://ropensci.org/blog/2016/03/28/software-review/>

Summary

Variety of services exists that allows researchers to showcase their work

Build on shared identifiers (ORCID, DOI)

Rich sources of curated data that can be re-used not only for research assessment

CV Fatigue

Different business models including access levels to metadata

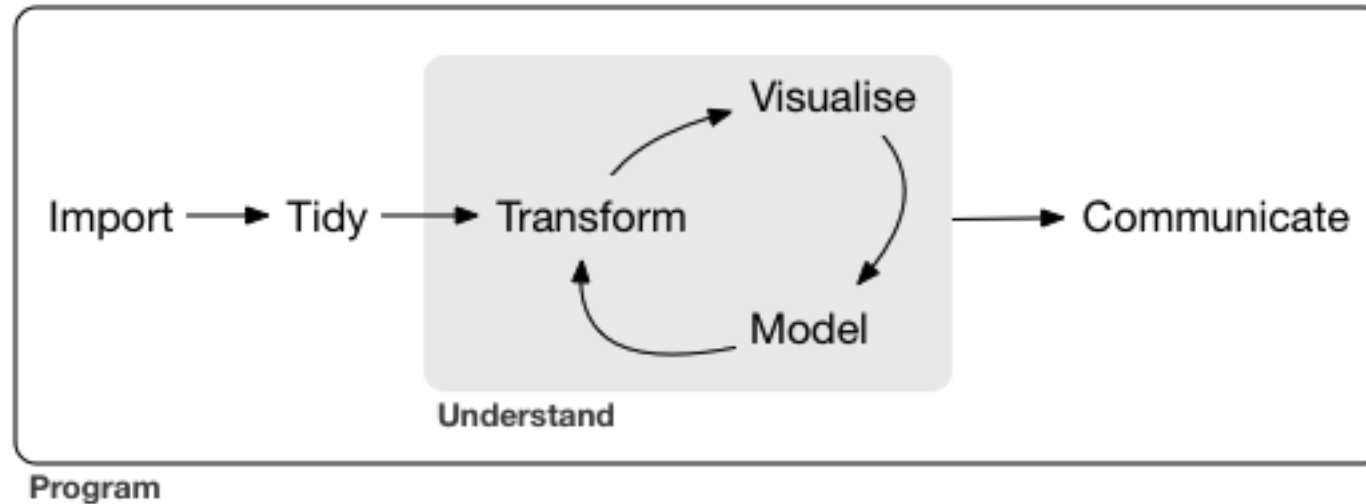
Indexing coverage and possible overlap needs to be examined

Tension between manually and automatic data curation

DEMO

Methods

Figure taken from H. Wickham & G. Grolemund, 2017. *R for Data Science*. Boston.



Data sources

- Publications from researchers affiliated with the university of Latvia indexed in the Web of Science (Year published 2017)
- Crossref Event Data to gather a wide range of usage events different to citations
- Analysis written as Open Notebook!

Data source	Event type
Cambia Lens	Citations in Patents
Crossref Metadata	Links to DataCite registered content
DataCite Metadata	Links to Crossref registered content
Hypothes.is	Annotations in Hypothes.is
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Exercise

Task

Please discuss:

What are the challenges of showcasing academic work?

How can your university contribute to productive and transparent research assessment exercises? List three measures:

- one short-term
- one middle-term
- one long-term