

Publish or Perish:

Realising Google Scholar's potential to democratise
citation analysis

Professor Anne-Wil Harzing
Middlesex University

Dr. David Adams
Tarma Software Research

Presentation outline

1. Brief historical overview of “citizen bibliometrics”, i.e. use of bibliometrics by non-experts
2. How Publish or Perish and Google Scholar have democratised citation analysis
3. Publish or Perish users: who are they and how do they use PoP?
4. Publish or Perish version 5: key new features
5. What's next for citizen bibliometrics?

1. A potted history of citizen bibliometrics

[with no pretence at completeness]

In the dark old days [before 2004], we had...

- As a data source
 - The Thomson Reuters Web of Science
 - *The Thomson Reuters Web of Science*
 - **The Thomson Reuters Web of Science**
- As metrics
 - The Thomson Reuters Journal Impact Factor
 - *The Thomson Reuters Journal Impact Factor*
 - **The Thomson Reuters Journal Impact Factor**
- Academia in the grip of a commercial monopoly

So why was this so bad?

- Data source: Thomson Reuters grew from a Western (Life) Sciences based paradigm and did not make much effort to adapt to the changing academic landscape
 - Harzing, A.W. (2013) **Document categories in the ISI Web of Knowledge: Misunderstanding the Social Sciences?**, *Scientometrics*, 93(1): 23-34.
 - Harzing, A.W. (2015) **Health warning: Might contain multiple personalities. The problem of homonyms in Thomson Reuters Essential Science Indicators**, *Scientometrics*, 105(3): 2259-2270.
- Metrics: Journal Impact Factor is designed for journals **not** individual articles or academics
 - The average # cites/paper in a journal says very little about an individual article in that journal [promise over proof]
 - JIF 2-year timeframe is much too short for most disciplines outside the Life Sciences
 - JIF is easy to manipulate by unscrupulous editors, manipulation became increasingly common

2004: The start of the age of enlightenment?

- Enter... Scopus by Elsevier
 - Better coverage in Engineering, Social Science & Humanities than WoS
 - Much more modern technology base (e.g. allows search for non-Western scripts, better disambiguation)
 - More appropriate journal metric indicators (SNIP, SJR)
 - BUT: (like WoS) huge subscription fees [and provided by “big bad” Elsevier]

- Enter... Google Scholar
 - Much broader coverage in all disciplines
 - Free: accessible to anyone with internet access
 - BUT: interface rather cumbersome to use
 - AND: doesn't calculate any metrics beyond citations

2005-2011: I can see more clearly now?

- 2005: Jorge Hirsch introduces the h-index, which takes the academic world by storm
- 2006: Publish or Perish 1.0 is released
 - Initially used mainly as a tool to calculate an academic's h-index based on Google Scholar data
- 2007: Publish or Perish 2.0 is released
 - Many additional features expanding its use cases
- 2007: Anne-Wil starts her systematic research on Google Scholar (Harzing, 2007a/b; Harzing & van der Wal, 2008, 2009)
 - 2009 paper compares Web of Science JIF with GS h-5 nearly 5 years before the metric was even introduced by Google Scholar 😊
- 2008: EC3 group in Granada starts studying Google Scholar
- 2010: Publish or Perish 3.0 with multi-query center is released
- 2010: Publish or Perish book is published
 - 2011: Publish or Perish book re-published in 3 parts

2012-2016: Free bibliometrics is becoming mainstream

- 2012: Google Scholar introduces GS Profiles with h-index and h5 index
- 2013: Publish or Perish v4 is released with streamlined interface and Microsoft Academic Search (MAS version 1) support
- 2013-current Anne-Wil continues research on:
 - Web of Science (Harzing, 2013a/2015): Problematic categorization & disambiguation
 - Google Scholar (Harzing 2013b/2014): Coverage is improving for all disciplines
 - Alternative metrics (Harzing, Alakangas & Adams, 2014): hla: individual, annual h-index
 - Google Scholar vs WoS/Scopus (Harzing & Mijnhardt, 2015; Harzing & Alakangas, 2016): GS performs better than WoS/Scopus in **all** disciplines
 - Microsoft Academic (Harzing, 2016, 2017): Serious alternative to GS, WoS and Scopus
- 2014: Google Scholar digest blog started by EC3 Research Group
- 2016: Publish or Perish v5 is released (200th or so public release)
 - New: GS Profile Search and Microsoft Academic (version 2) Search
 - New: Exporting full reference formats + heuristic classification of publication types
 - Publish or Perish tutorial published, helpfile completely overhauled and extended

2. How PoP & GS have democratised citation analysis

[Some examples and illustrations]

GS democratises access to research materials

- Anurag Acharya at *Association of Learned and Professional Society Publishers Sept 2015*
- Articles/publications stand on their own rather than be part of a journal; this benefits:
 - Older articles
 - Regional articles
 - Publications in non-elite journals
 - Non journal publications such as dissertations, book chapters
- Spread of attention outside elite group of journals
 - Good ideas can come from anywhere
 - Insight is not limited to the well-funded ...
 - ... or to the well-published

PoP & GS democratise access to **citation data** (1)

- **Wide user base: PoP used by academics, librarians, governments, grant agencies, and research laboratories**
 - Approximately half a million individual academic users
 - Thousands of libraries worldwide list the software as a free alternative to Scopus and the Web of Science
 - Government [departments]: e.g. US EPA, US Agency for International Development, Colciencias (Columbia), Poland, France
 - Grant giving agencies: e.g. SSHRC in Canada, CNRS in France
 - Research laboratories: e.g. Microsoft, Hewlett Packard, IBM
- **Wide geographical base: PoP used in more than 100 countries**
 - Prestigious Western universities: e.g. Harvard, Stanford, MIT, Oxford, Cambridge, INSEAD
 - Very popular in Italy, Poland, France, Germany, and Greece for its broader coverage and as a tool to expose nepotism in academic appointments
 - But also... used in under-resourced universities in countries such as Armenia, Botswana, Ethiopia, Lesotho, Mongolia, Paraguay, Tajikistan, Ukraine, and Uruguay

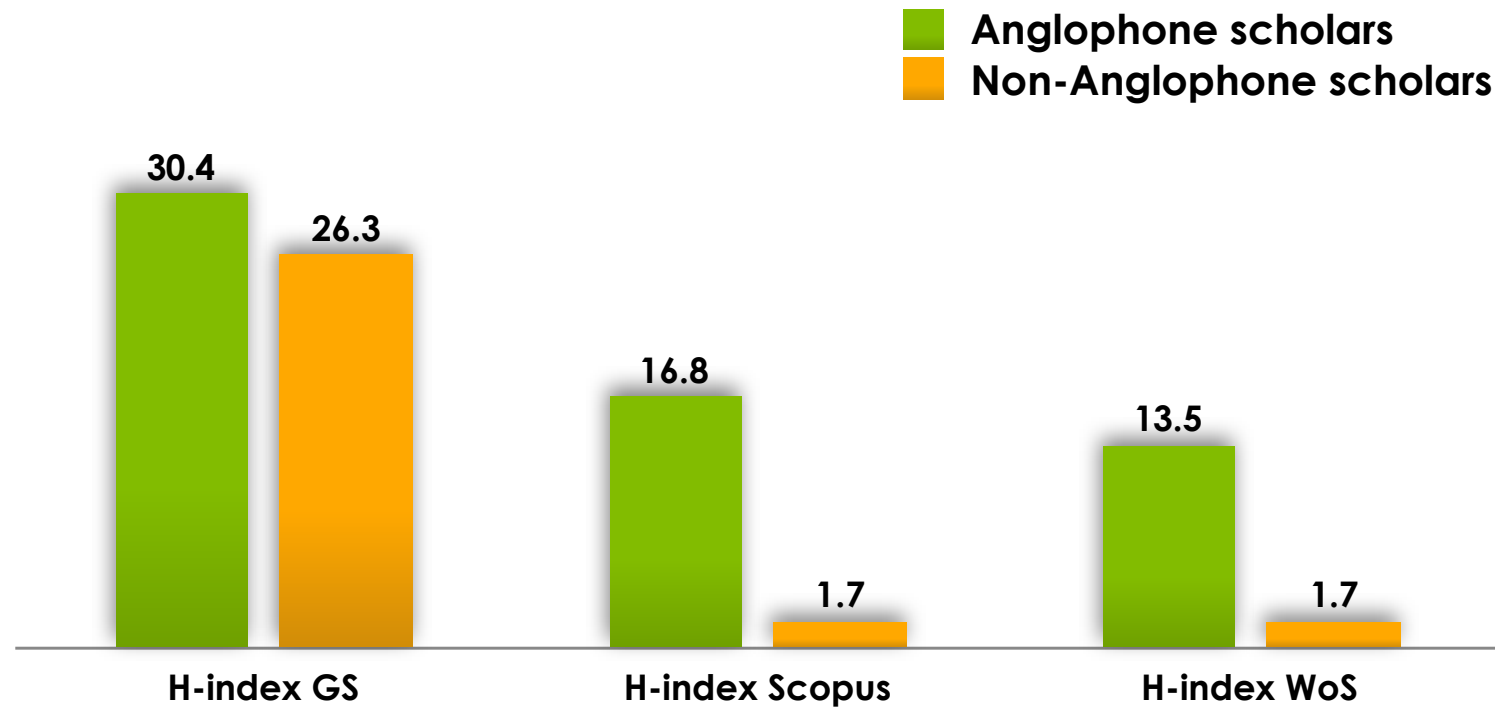
PoP & GS: Let's hear the PoP users speak

- *The more I work with GS the more I appreciate the gate those guys opened for us. PoP enhances GS and if I were working for Google, I would consider developing it further to become the equivalent of Google Earth.*
- *We have benefitted from the use of Harzing's Publish or Perish software. We have been fans of your work for some time now and have used your tools to inform our own benchmarking here at Harvard Business School.*
- *A close colleague of mine told me an amusing anecdote last month about a social sciences meeting for upgrading Oxford University academics to professor, at which 17 department heads presented cases for members of their staff - all but one of whom used Harzing (PoP) statistics.*
- *I've referred people to your software more times than I can count, it's recognized as the single most effective tool for calculating personal H-indices. I do not doubt that PoP is in large part responsible for the broadening interest in bibliometrics. Giving academics a tool by which to compare themselves to their peers has had a tremendous impact globally.*
- *As I am sure you realize, being able to demonstrate the influence of research by the Worldbank is enormously important to supporting and expanding that research. [...] I have found your software Publish or Perish to be the single most useful tool available for these purposes.*
- *It was a great pleasure to meet someone who has contributed so much, completely free of charge, to the development of the social sciences. Academic altruists are rare indeed, and your PoP programme is a huge advance.*

PoP & GS democratise access to **citation data** (2)

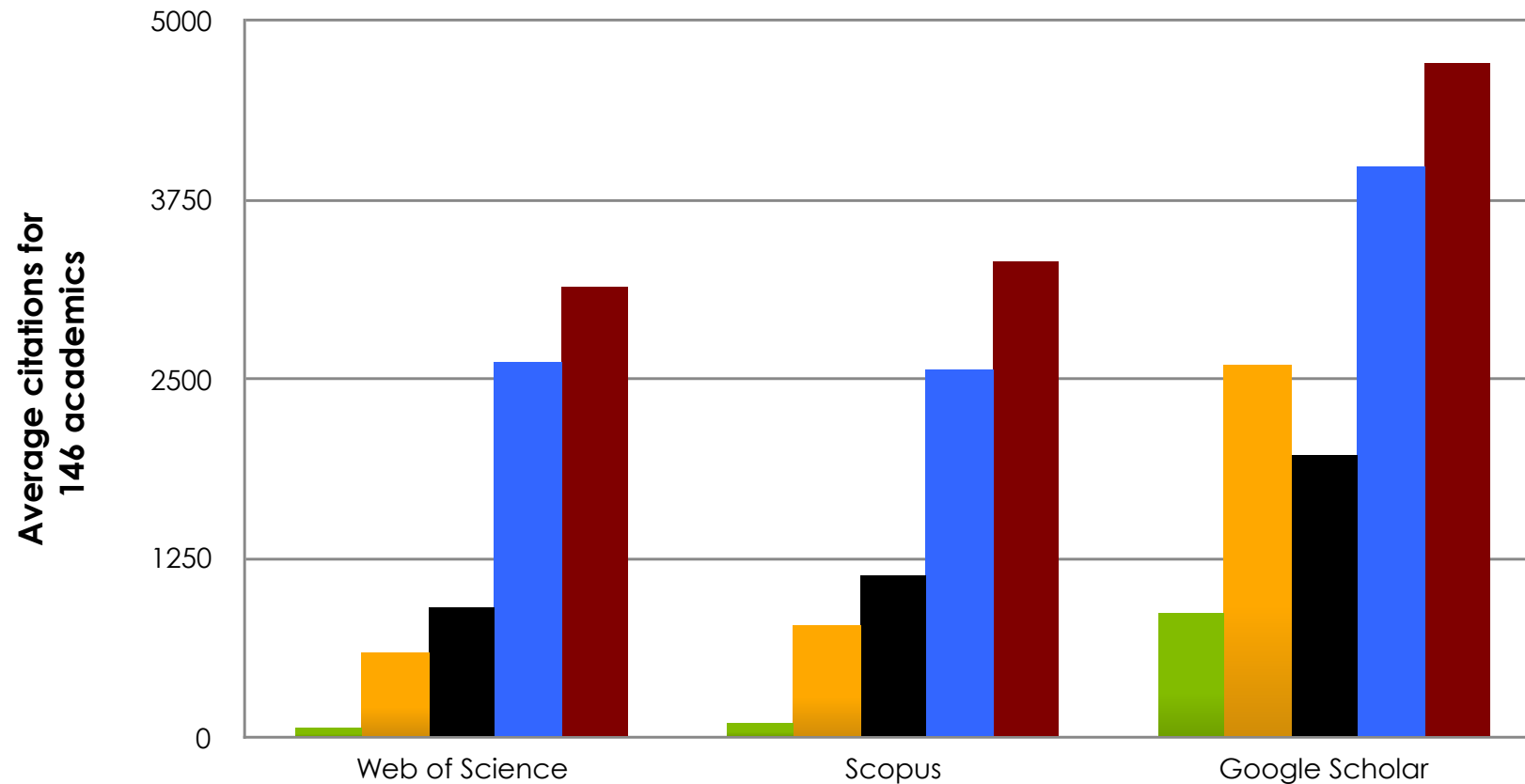
- **Wide language base: PoP used to cover non-English language publications**
 - Web of Science and Scopus have VERY limited coverage of LOTE publications
 - Web of Science doesn't allow searches in non-Western scripts
- **Wide disciplinary base: PoP used for bibliometric research in the Social Sciences and Humanities**
 - Thousands of published papers using Publish or Perish to analyze Google Scholar data
 - Bibliometrics can now be used in these disciplines with appropriate metrics and databases

PoP & GS make non-Anglo scholars visible



- For details see: <http://www.harzing.com/publications/white-papers/do-google-scholar-scopus-and-the-web-of-science-speak-your-language>

PoP & GS make Engineering & SSH disciplines visible



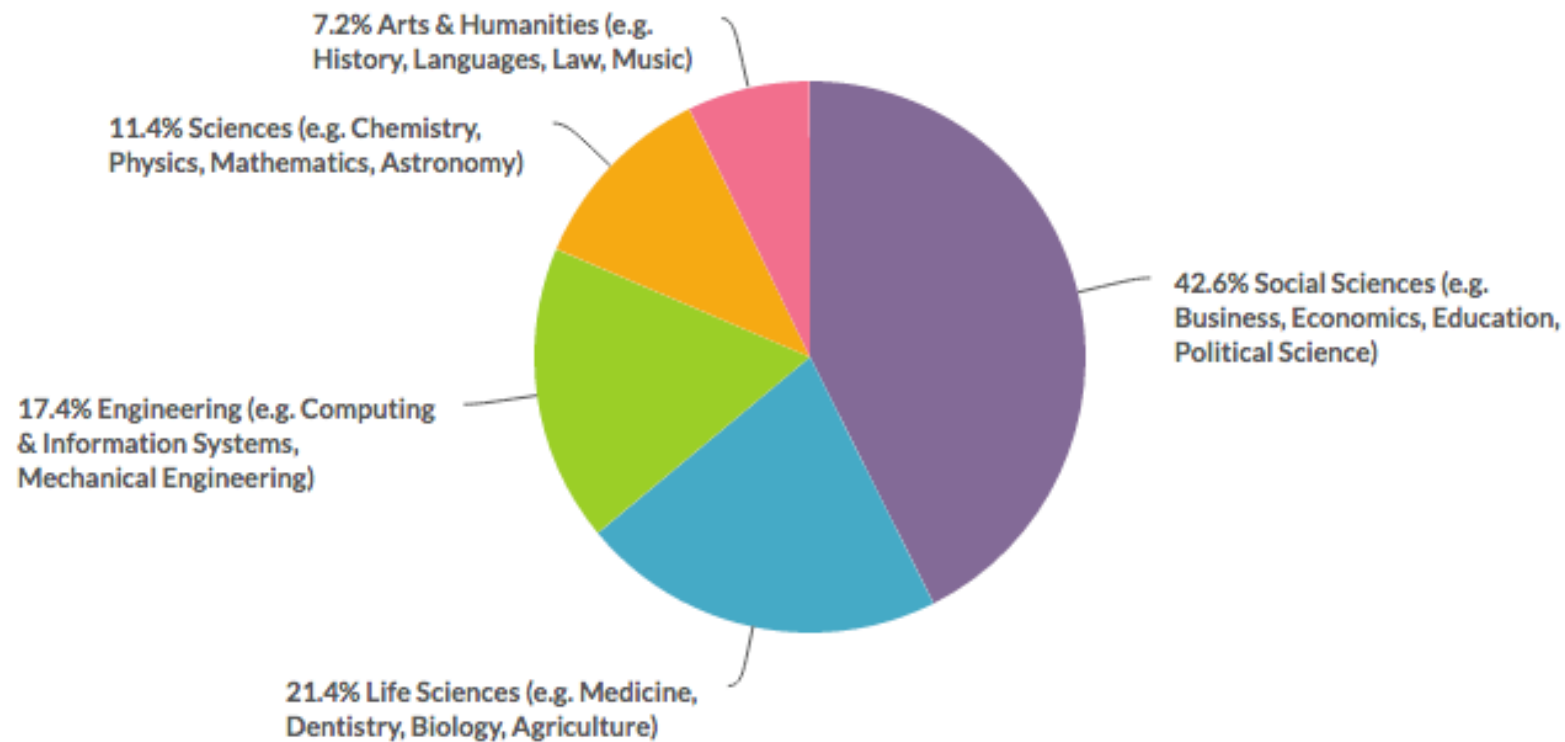
PoP & GS reduce bias in academic rankings

- Harzing, A.W.; Mijnhardt, W. (2015) **Proof over promise: Towards a more inclusive ranking of Dutch academics in Economics & Business**, *Scientometrics*, 102(1): 727-749.
- New top-40 using GS/PoP individual annual h-index, rather than Thomson Reuters JIF
 - Reduction of traditional dominance of: Economics over Business, older over younger academic, male over female academics, and academics from prestigious institutions
 - 7 out of the academics originally in the top-10 drop out of the top-40 completely when using the h_{1a} and Google Scholar
- Resulting ranking is more democratic
 - removal of disciplinary, age, gender, and institutional biases
 - verdict based on entire academic community
 - transparent and easy to replicate for anyone
 - more dynamic with better chances for younger academics

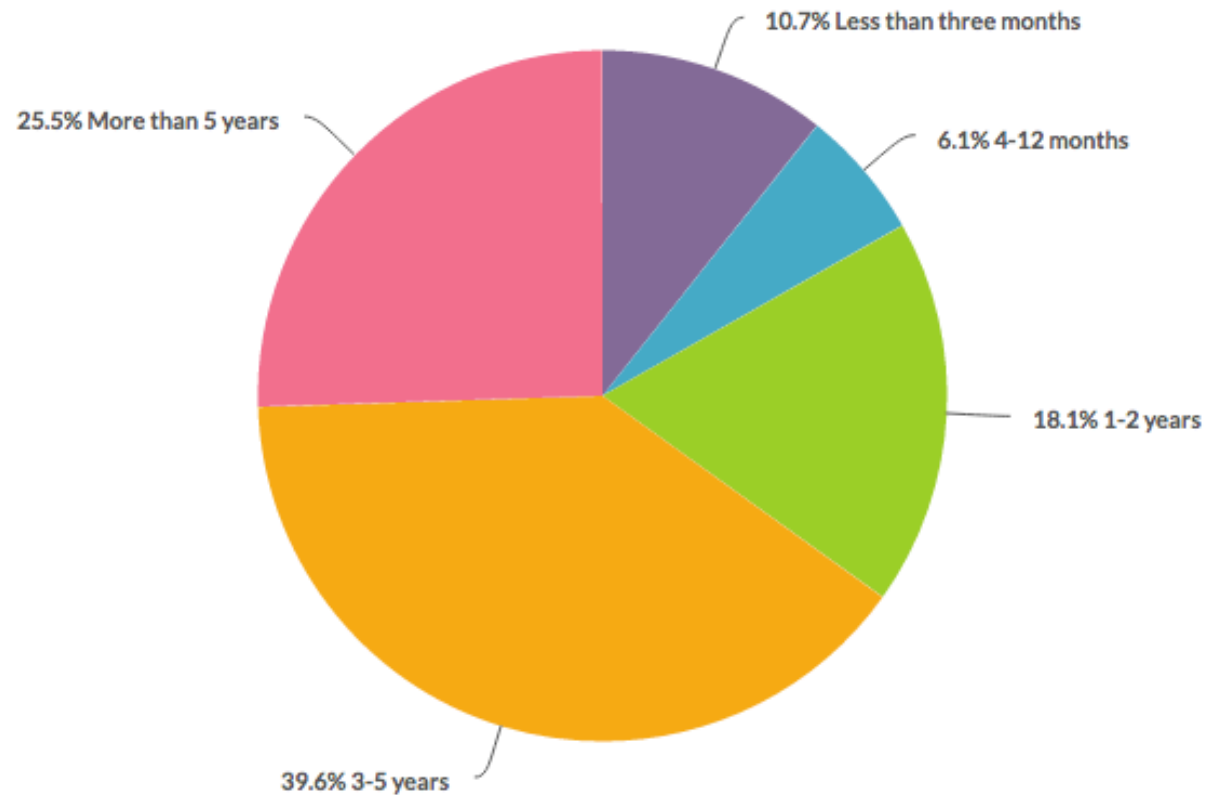
3. Publish or Perish users: who are they and how do they use PoP?

[Some survey data and blog posts]

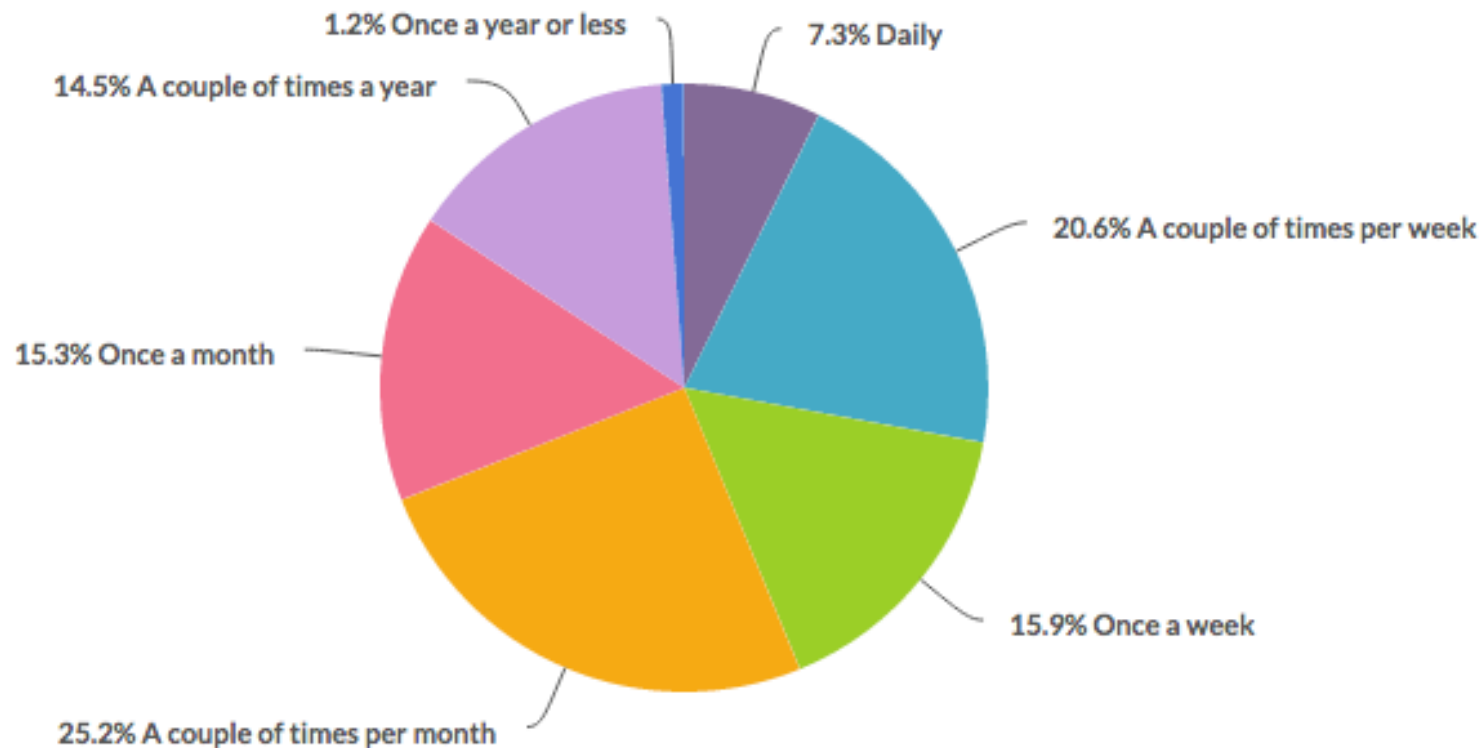
What disciplinary area do users come from?



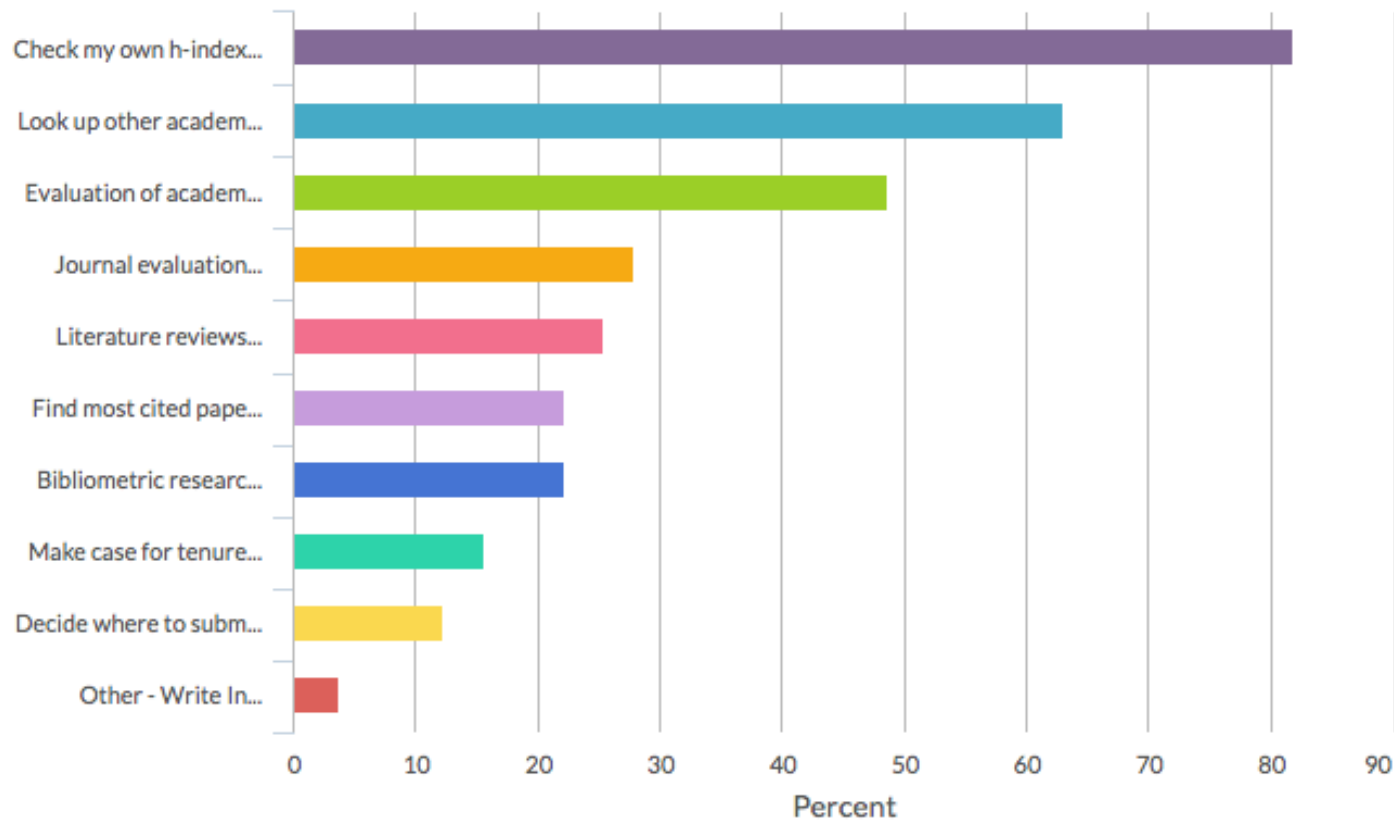
How long have you been using Publish or Perish?



How often do you use Publish or Perish?



What do you use PoP for [multiple answers possible]?



PoP helps with dozens of daily academic tasks

- Making [your case for impact](#)
- [Looking for John Smith](#): disambiguate authors in Google Scholar
- Preparing a [case for tenure or promotion](#)
- Deciding where to [submit your next paper](#)
- Having a [meeting with your academic hero](#)?
- Impressing your [academic interview panel](#)
- Doing a [literature review](#)
- [Evaluating your research group](#)/department/school
- And many many more... [[PoP: a Swiss army knife](#)]

4. PoP version 5: key new features

[A **very** brief selection]

PoP Version 5: Clean out your Google Scholar Profile

- Originally bulk import of over 300 publications in my profile
- Getting an overview of the “dross” is hard in the GS Profile interface; you can only see a dozen or so publications on screen at the same time and cannot sort by journal or author
- PoP allows me to easily spot strays [which can then be merged in GSP] and incomplete references [which can then be completed in GSP], resulting in a (now) very clean profile

Google Scholar Profile query Help

Profile name: Anne-Wil Harzing - Professor of International Management - Middlesex University Lookup

Annual citations:

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017
New	708	758	971	1140	1270	1274	1403	1624	206
Total	3146	3904	4875	6015	7285	8559	9962	11586	11792

Show profile Copy citations Clear All Revert Copy New

Metrics Help

Publication years:	1995-2017
Citation years:	22 (1995-2017)
Papers:	123
Citations:	11792
Cites/year:	536.00
Cites/paper:	95.87
Cites/author:	8556.73
Papers/author:	81.33
Authors/paper:	1.93
h-index:	51
g-index:	108
hI,norm:	41
hI,annual:	1.86
*Count:	44

Cites	Per year	Authors	Title	Year	Publication	Type
<input checked="" type="checkbox"/> h 586	58.60*	AW Harzing	Publish or Perish	2007		Online document
<input checked="" type="checkbox"/> h 576	38.40*	AW Harzing	Acquisitions versus greenfield investments: International strategy and...	2002	Strategic Management Journal	Journal article
<input checked="" type="checkbox"/> h 559	69.88*	NJ Adler, AW Harzing	When knowledge wins: Transcending the sense and nonsense of acad...	2009	The Academy of Management Learning and...	Journal article
<input checked="" type="checkbox"/> h 526	58.44*	AW Harzing, R van der Wal	Google Scholar as a new source for citation analysis?	2008	Ethics in Science and Environmental Politics	Journal article
<input checked="" type="checkbox"/> h 505	29.71*	AW Harzing	An empirical analysis and extension of the Bartlett and Ghoshal typol...	2000	Journal of International Business Studies	Journal article
<input checked="" type="checkbox"/> h 450	25.00*	AW Harzing	Managing the multinationals: An international study of control mech...	1999		Book
<input checked="" type="checkbox"/> h 416	26.00*	AW Harzing	Of bears, bumble-bees, and spiders: The role of expatriates in controll...	2001	Journal of World Business	Journal article
<input checked="" type="checkbox"/> h 408	31.38*	AW Harzing, A Pinnington	International Human Resource Management	2004		Book
<input checked="" type="checkbox"/> h 407	18.50*	AW Harzing	The persistent myth of high expatriate failure rates	1995	The International Journal of Human Resourc...	Journal article
<input checked="" type="checkbox"/> h 368	18.40*	AW Harzing	Response rates in international mail surveys: results of a 22-country st...	1997	International Business Review	Journal article
<input checked="" type="checkbox"/> h 360	32.73*	AW Harzing	Response styles in cross-national survey research: A 26-country Study	2006	International Journal of Cross Cultural Mana...	Journal article
<input checked="" type="checkbox"/> h 344	24.57*	AW Harzing, A Sorge	The relative impact of country of origin and universal contingencies o...	2003	Organization Studies	Journal article
<input checked="" type="checkbox"/> h 325	20.31*	AW Harzing	Who's in charge? An empirical study of executive staffing practices in ...	2001	Human Resource Management	Journal article
<input checked="" type="checkbox"/> h 307	21.93*	AJ Feely, AW Harzing	Language management in multinational companies	2003	Cross Cultural Management: An Internation...	Journal article
<input checked="" type="checkbox"/> h 261	32.63*	N Noorderhaven, AW Harzi...	Knowledge-sharing and social interaction within MNEs	2009	Journal of International Business Studies	Journal article
<input checked="" type="checkbox"/> h 257	25.70*	M Pudelko, AW Harzing	Country-of-origin, localization, or dominance effect? An empirical in...	2007	Human Resource Management	Journal article
<input checked="" type="checkbox"/> h 241	30.13*	AW Harzing, R van der Wal	A Google Scholar h-index for journals: An alternative metric to measu...	2009	JASIST	Journal article

PoP Version 5: Spotting dirty profiles easily

- Tsinghua University for example has many dirty profiles, but the extent only becomes clear when displaying them in PoP. Here is a junior academic with publications several decades before he was born 😊
 - Misappropriation of Geim's graphene article
 - First fifteen publications seem to refer to at least 10 different people in different disciplines

Google Scholar Profile query

Profile name: Zhe Wang - Associate Professor, Tsinghua University

Annual citations:	Year	2009	2010	2011	2012	2013	2014	2015	2016	2017
New	4548	5789	7565	9505	11562	12265	12184	11071	1211	
Total	21165	26954	34519	44024	55586	67851	80035	91106	92317	

Show profile Copy citations

Metrics	Help	Cites	Per year	Authors	Title	Year	Publication
Publication years:	1966-2016	<input checked="" type="checkbox"/> h 23911	2391.10*	AK Geim, KS Novoselov	The rise of graphene	2007	Nature materials
Citation years:	51 (1966-2017)	<input checked="" type="checkbox"/> h 2365	112.62*	R Jagannathan, Z Wang	The conditional CAPM and the cross-section of expected returns	1996	The Journal of finance
Papers:	2999	<input checked="" type="checkbox"/> h 1532	85.11*	Z Zhu, RJ Homer, Z Wang, Q Chen, ...	Pulmonary expression of interleukin-13 causes inflammation, ...	1999	The Journal of clinical investigation
Citations:	91608	<input checked="" type="checkbox"/> h 1188	118.80*	A Takaoka, ZC Wang, MK Choi, H Y...	DAI (DLM-1/ZBP1) is a cytosolic DNA sensor and an activator o...	2007	Nature
Cites/year:	1796.24	<input checked="" type="checkbox"/> h 737	61.42*	ZH Ren, JP Gao, LG Li, XL Cai, W Hu...	A rice quantitative trait locus for salt tolerance encodes a sodiu...	2005	Nature genetics
Cites/paper:	30.55	<input checked="" type="checkbox"/> h 596	45.85*	Z Wang, G Wang	APD: the antimicrobial peptide database	2004	Nucleic acids research 32 (suppl 1), D590-D
Cites/author:	26255.47	<input checked="" type="checkbox"/> h 540	135.00*	M Ablikim, MN Achasov, XC Ai, O ...	Observation of a Charged Charmoniumlike Structure in e+ e- ...	2013	Physical review letters
Papers/author:	716.89	<input checked="" type="checkbox"/> h 532	76.00*	M Ablikim, ZH An, JZ Bai, N Berger,...	Design and construction of the BESIII detector	2010	Nuclear Instruments and Methods in Physics Res...
Authors/paper:	5.39	<input checked="" type="checkbox"/> h 428	53.50*	H Yanai, T Ban, ZC Wang, MK Choi,...	HMGB proteins function as universal sentinels for nucleic-acid...	2009	Nature
h-index:	112	<input checked="" type="checkbox"/> h 412	82.40*	LJ Zhou, H Wu, JT Li, ZY Wang, LY ...	Determination of fatty acids in broiler breast meat by near-infr...	2012	Meat science
g-index:	250	<input checked="" type="checkbox"/> h 402	20.10*	DG Marsh, NE Maestri, LR Freidhoff,...	A genome-wide search for asthma susceptibility loci in ethnica...	1997	Nature genetics
hI,norm:	43	<input checked="" type="checkbox"/> h 394	21.89*	Z Wang, J Chen, B Yang	Posterior corneal surface topographic changes after laser in sit...	1999	Ophthalmology
hI,annual:	0.84	<input checked="" type="checkbox"/> h 371	14.84*	ZY Wang, G Second, SD Tanksley	Polymorphism and phylogenetic relationships among species i...	1992	Theoretical and Applied Genetics
Count:	181	<input checked="" type="checkbox"/> h 367	26.21	JZ Bai, Y Ban, JG Bian, X Cai, JF Cha...	Observation of a Near-Threshold Enhancement in the p p~ Mas...	2003	Physical review letters
		<input checked="" type="checkbox"/> h 348	15.82*	ZY Wang, FQ Zheng, GZ Shen, JP G...	The amylose content in rice endosperm is related to the post-tr...	1995	The Plant Journal

PoP V5: Easily compare your record across 4 data-sources

- PoP allows easy importing of Scopus and WoS data

Harzing's Publish or Perish 5.26.1.6240

File Edit Query Tools Help

My queries

- 4 databases
- A-Archive
- A-Harzing longitudinal
- Comparison
- MAS
- A-Old research projects
- Institutions
- JME 2016 Authors
- Language review

Query	Source	Papers	Cites	Cites/year	h	g	h _i norm	h _i annual	*Count	Query date	Cache date
✓ a harzing	Google Scholar	335	12099	549.95	51	107	41	1.86	43	30/01/2017	30/01/2017
✓ Anne-Wil Harzing - Professor of Internationa...	Google Scholar Profile	123	11705	532.05	51	108	41	1.86	43	30/01/2017	30/01/2017
✓ a harzing	Microsoft Academic	127	9737	442.59	43	98	36	1.64	38	30/01/2017	30/01/2017
✓ 098_Harzing_Scopus.csv [2016-11-01 17:19:53]	Scopus (CSV)	72	3330	158.57	28	57	23	1.10	16	01/11/2016	01/11/2016
✓ 098_Harzing_ISI.txt [2016-11-01 17:18:12]	ISI/WoS (tagged)	54	2044	127.75	23	45	18	1.13	10	01/11/2016	01/11/2016

Imported external data

Display title: 098_Harzing_Scopus.csv [2016-11-01 17:19:53]

Original format: Scopus (CSV)

Imported fields:

<input checked="" type="checkbox"/> Authors	<input checked="" type="checkbox"/> Type	<input checked="" type="checkbox"/> Volume	<input checked="" type="checkbox"/> Article link
<input checked="" type="checkbox"/> Title	<input checked="" type="checkbox"/> Year	<input checked="" type="checkbox"/> Issue no.	<input type="checkbox"/> Citation link
<input checked="" type="checkbox"/> Publication	<input type="checkbox"/> ISSN	<input checked="" type="checkbox"/> Start page	<input type="checkbox"/> Citing references link
<input type="checkbox"/> Publisher	<input checked="" type="checkbox"/> DOI	<input checked="" type="checkbox"/> End page	<input checked="" type="checkbox"/> Number of citations

Note: Unchecked fields were not available in the imported data.

Metrics

Publication years:	Cites	Per year	Authors	Title	Year	Publication	Type
1995-2016	✓ h 260	37.14*	N.J. Adler, A.-W. Harzing	When knowledge wins: Transcending the sense and nonsense ...	2009	Academy of Management Learning and Education	Article
Citation years: 21 (1995-2016)	✓ h 194	10.21*	A.-W. Harzing	Response rates in international mail surveys: Results of a 22-co...	1997	International Business Review	Article
Papers: 72	✓ h 190	13.57*	A.-W. Harzing	Acquisitions versus greenfield investments: International strate...	2002	Strategic Management Journal	Article
Citations: 3330	✓ h 189	23.63*	A.-W.K. Harzing, R. van der Wal	Google Scholar as a new source for citation analysis	2008	Ethics in Science and Environmental Politics	Article
Cites/year: 158.57	✓ h 187	12.47*	A.-W. Harzing	Of bears, bumble-bees, and spiders: The role of expatriates in c...	2001	Journal of World Business	Article
Cites/paper: 46.25	✓ h 173	17.30*	A.-W. Harzing	Response styles in cross-national survey research: A 26-country...	2006	International Journal of Cross Cultural Managem...	Article
Cites/author: 2312.63	✓ h 162	10.13*	A.W. Harzing	An empirical analysis and extension of the Bartlett and Ghoshal...	2000	Journal of International Business Studies	Article
Papers/author: 41.88	✓ h 160	12.31*	A.-W. Harzing, A. Sorge	The relative impact of country of origin and universal continge...	2003	Organization Studies	Article
h-index: 28	✓ h 119	7.93	A.-W. Harzing	Who's in charge? An empirical study of executive staffing pract...	2001	Human Resource Management	Article
g-index: 57	✓ h 114	12.67*	M. Pudelko, A.-W. Harzing	Country-of-origin, localization, or dominance effect? An empir...	2007	Human Resource Management	Article
h _i norm: 23	✓ h 111	15.86*	N. Noorderhavan, A.-W. Harzing	Knowledge-sharing and social interaction within MNEs	2009	Journal of International Business Studies	Article
h _i annual: 1.10	✓ h 101	14.43*	A.-W. Harzing, R.V.D. Wal	A google scholar h-index for journals: An alternative metric to ...	2009	Journal of the American Society for Information ...	Article
*Count: 16	✓ h 101	6.31	A.-W. Harzing	Cross-national industrial mail surveys: Why do response rates d...	2000	Industrial Marketing Management	Article

PoP Version 5: Export full bibliographic details

- Export one, many or all results into any format!

<input checked="" type="checkbox"/>	h 574	38.27*	2	AW Harzing	strategy and m...	2002	Strategic Management Journal
<input checked="" type="checkbox"/>	h 555	69.38*	3	NJ Adler, AW Harzing	sense of acade...	2009	The Academy of Management Learning and Edu...
<input checked="" type="checkbox"/>	h 522	58.00*	4	AW Harzing, R van der V		2008	Ethics in Science and Environmental Politics
<input checked="" type="checkbox"/>	h 505	29.71*	5	AW Harzing	hoshal typology...	2000	Journal of International Business Studies
<input checked="" type="checkbox"/>	h 450	25.00*	6	AW Harzing	ontrol mechani...	1999	
<input checked="" type="checkbox"/>	h 415	25.94*	7	AW Harzing	es in controllin...	2001	Journal of World Business
<input checked="" type="checkbox"/>	h 407	18.50*	8	AW Harzing			International Journal of Human Resource Ma...
<input checked="" type="checkbox"/>	h 406	31.23*	9	AW Harzing, A Pinningt			Business Review
<input checked="" type="checkbox"/>	h 366	18.30*	10	AW Harzing			Journal of Cross Cultural Managem...
<input checked="" type="checkbox"/>	h 356	32.36*	11	AW Harzing			Studies
<input checked="" type="checkbox"/>	h 342	24.43*	12	AW Harzing, A Sorge			Source Management
<input checked="" type="checkbox"/>	h 324	20.25*	13	AW Harzing			International Management: An International Jo...
<input checked="" type="checkbox"/>	h 305	21.79*	14	AJ Feely, AW Harzing			International Business Studies
<input checked="" type="checkbox"/>	h 260	32.50*	15	N Noorderhaven, AW H			Source Management
<input checked="" type="checkbox"/>	h 257	25.70*	16	M Pudelko, AW Harzing			International Management: An International Jo...
<input checked="" type="checkbox"/>	h 236	29.50*	17	AW Harzing, R van der V			International Business Studies
<input checked="" type="checkbox"/>	h 223	24.78*	18	AW Harzing, AJ Feely			Source Management
<input checked="" type="checkbox"/>	h 212	15.14*	19	AW Harzing	The role of culture in entry-mode studies: from neglect		International Management: An International Jo...
<input checked="" type="checkbox"/>	h 204	12.00*	20	AW Harzing	Cross-national industrial mail surveys: Why do response		International Management
<input checked="" type="checkbox"/>	h 203	29.00*	21	AW Harzing	The publish or perish book		Marketing Management
<input checked="" type="checkbox"/>	h 178	11.87*	22	AW Harzing	Are our referencing errors undermining our scholarship		Value Research
<input checked="" type="checkbox"/>	h 172	13.23*	23	JB Hocking, M Brown, AW Ha...	A knowledge transfer perspective of strategic assignme		Organizational Behavior
<input checked="" type="checkbox"/>	h 168	10.50*	24	AW Harzing	An analysis of the functions of international transfer of		International Journal of Human Resource Ma...
<input checked="" type="checkbox"/>	h 159	14.45*	25	AW Harzing, N Noorderhaven	Knowledge flows in MNCs: An empirical test and extens		Relations
<input checked="" type="checkbox"/>	h 157	12.08*	26	AW Harzing, C Christensen	Expatriate failure: time to abandon the concept?	2004	Business Review
							Career Development International

The result? A neat list of references in a few clicks

- Harzing, AW (2002). Acquisitions versus greenfield investments: International strategy and management of entry modes. *Strategic Management Journal*, 23(3), 211-227.
- Adler, NJ, & Harzing, AW (2009). When knowledge wins: Transcending the sense and nonsense of academic rankings. *The Academy of Management Learning and Education*, 8(1), 72-95.
- Harzing, AW, & Wal, R van der (2008). Google Scholar as a new source for citation analysis?. *Ethics in Science and Environmental Politics*, 8(1), 61-73.
- Harzing, AW (2000). An empirical analysis and extension of the Bartlett and Ghoshal typology of multinational companies. *Journal of International Business Studies*, 31(1), 101-120.
- Harzing, AW (1999). Managing the multinationals: An international study of control mechanisms. Edward Elgar.
- Harzing, AW (2001). Of bears, bumble-bees, and spiders: The role of expatriates in controlling foreign subsidiaries. *Journal of World Business*, 36(4), 366-379.
- Harzing, AW (1995). The persistent myth of high expatriate failure rates. *The International Journal of Human Resource Management*, 6(2), 457-474.
- Harzing, AW, & Pinnington, A (2004). *International Human Resource Management*. Sage Publications.
- Harzing, AW (1997). Response rates in international mail surveys: results of a 22-country study. *International Business Review*, 6(6), 641-665.
- Harzing, AW (2006). Response styles in cross-national survey research: A 26-country Study. *International Journal of Cross Cultural Management*, 6(2), 243-266.
- Harzing, AW, & Sorge, A (2003). The relative impact of country of origin and universal contingencies on internationalization strategies and corporate control in multinational enterprises: worldwide and European perspectives. *Organization Studies*, 24(2), 187-214.
- Harzing, AW (2001). Who's in charge? An empirical study of executive staffing practices in foreign subsidiaries. *Human Resource Management*, 40(2), 139-158.
- Feely, AJ, & Harzing, AW (2003). Language management in multinational companies. *Cross Cultural Management: An International Journal*, 10(2), 37-52.
- Noorderhaven, N, & Harzing, AW (2009). Knowledge-sharing and social interaction within MNEs. *Journal of International Business Studies*, 40(5), 719-741.
- Pudelko, M, & Harzing, AW (2007). Country-of-origin, localization, or dominance effect? An empirical investigation of HRM practices in foreign subsidiaries. *Human Resource Management*, 46(4), 535-559.
- Harzing, AW, & Wal, R van der (2009). A Google Scholar h-index for journals: An alternative metric to measure journal impact in Economics and Business. *JASIST*, 60(1), 41-46.
- Harzing, AW, & Feely, AJ (2008). The language barrier and its implications for HQ-subsidiary relationships. *Cross Cultural Management: An International Journal*, 15(1), 49-61.
- Harzing, AW (2003). The role of culture in entry-mode studies: from neglect to myopia?. *Advances in International Management*, 15(1), 75-127.
- Harzing, AW (2000). Cross-national industrial mail surveys: Why do response rates differ between countries?. *Industrial Marketing Management*, 29(3), 243-254.
- Harzing, AW (2010). The publish or perish book. *Tarma Software Research*.
- Harzing, AW (2002). Are our referencing errors undermining our scholarship and credibility? The case of expatriate failure rates. *Journal of Organizational Behavior*, 23(1), 127-148.
- Hocking, JB, Brown, M, & Harzing, AW (2004). A knowledge transfer perspective of strategic assignment purposes and their path-dependent outcomes. *The International Journal of Human Resource Management*, 15(3), 565-586.
- Harzing, AW (2001). An analysis of the functions of international transfer of managers in MNCs. *Employee Relations*, 23(6), 581-598.
- Harzing, AW, & Noorderhaven, N (2006). Knowledge flows in MNCs: An empirical test and extension of Gupta and Govindarajan's typology of subsidiary roles. *International Business Review*, 15(3), 195-214.
- Harzing, AW, & Christensen, C (2004). Expatriate failure: time to abandon the concept?. *Career Development International*, 9(7), 616-626.

PoP V5: Intuitive exporting of results or metrics

The screenshot displays the Harzing's Publish or Perish software interface. The main window shows a list of queries with columns for Query, Source, Papers, Cites, Cites/year, h, g, h_i,norm, h_i,annual, *Count, and Query date. The selected query is for Ute Roessner - The University of Melbourne.

The Google Scholar Profile query details for Ute Roessner - The University of Melbourne are shown below:

Year	2009	2010	2011	2012	2013	2014	2015
Annual citations:	533	518	641	699	755	736	830
New	533	518	641	699	755	736	830
Total	3392	3910	4551	5250	6005	6741	7571

The Metrics section shows the following data:

Publication years:	1998-2017
Citation years:	19 (1998-2017)
Papers:	166
Citations:	8415
Cites/year:	442.89
Cites/paper:	50.69
Cites/author:	1542.22
Papers/author:	42.07
Authors/paper:	5.14
h-index:	39
g-index:	91
h _i ,norm:	21
h _i ,annual:	1.11
*Count:	20

The context menu for the selected query is open, showing options for exporting results. The 'Copy Metrics' option is selected, and a sub-menu is open showing the following options:

- As CSV
- As CSV with Header
- For Excel
- For Excel with Header

The main window also displays a list of publications for the selected query, with columns for Year and Publication. The list includes the following entries:

Year	Publication
2000	The Plant Journal
2001	The Plant Cell
2004	Trends in plant science
2006	Nature biotechnology
2005	FEBS letters
2003	The Plant Cell
2003	EMBO reports
2003	Plant Physiology
2004	Nature biotechnology
2001	Plant Physiology
2012	Metabolites
1999	The Plant Journal

The result: A neat list of data for further analysis

Query	Source	Paper	Citation	Year	Cites Year	Cites Paper	Cites Author	Papers Author	Authors Paper	h_Index	g_Index	hc_Index	hi_Index	hi_no	AW	AW_in	AWCR	e_inc	hm_in	Cites_Year	hl_ann
Ute Roessner - The University of Melbourne	Google Scholar Profile	166	8415	19	442.89	50.69	1542.22	42.07	5.14	39	91	29	6.88	21	812.1	28.5	156	77.98	12.74	81.16	1.11
Trichur Vidyasagar - Professor, Google Scholar Profile		105	3805	44	86.48	36.24	1959.47	53.62	2.65	32	60	17	12.34	22	242	15.56	122.7	47.27	20.34	44.53	0.5
Trevor Burnard - Professor of Health Economics, Google Scholar Profile		196	816	29	28.14	4.16	778.07	168.21	1.34	13	27	8	12.07	13	61.86	7.87	57.82	21.12	12.5	26.83	0.45
Tim Stinear - Research Fellow, Google Scholar Profile		122	5596	21	266.48	45.87	1037.72	22.23	6.05	39	74	31	6.67	17	743.5	27.27	130.5	56.7	12.25	49.41	0.81
Thomas Kvan - University of Melbourne, Google Scholar Profile		136	2329	31	75.13	17.13	1344.42	66.95	2.71	24	45	11	9.14	14	173.2	13.16	92.13	32.92	16.73	43.36	0.45
Stephen Swearer - Professor of Health Economics, Google Scholar Profile		100	3368	26	129.54	33.68	968.14	33.19	3.64	23	57	18	6.37	16	335.8	18.32	99.84	47.82	12.39	37.23	0.62
Shyamali Chharmage - Google Scholar Profile		435	7028	22	319.45	16.16	1278.13	78.29	6.29	48	76	37	7.46	15	1237	35.17	209	50.34	16.94	58.09	0.68
Shanika Karunasekera - University of Melbourne, Google Scholar Profile		97	1674	24	69.75	17.26	608.68	28.82	3.73	19	39	16	5.64	10	208.3	14.43	64.52	30.46	9.99	25.36	0.42
Sandra E. Kentish - Professor, Google Scholar Profile		313	7215	25	288.6	23.05	1706.69	73.92	4.86	45	73	34	10.33	21	1218	34.9	277.4	48.71	20.77	68.26	0.84
Saman K. Halgamuge - Professor, Google Scholar Profile		265	6480	26	249.23	24.45	2287.29	97.36	3.29	33	76	23	10.89	19	615	24.8	200.2	62.31	19.7	87.97	0.73
Roy Robins-Browne - Professor, Google Scholar Profile		323	14715	44	334.43	45.56	3633.55	85.67	4.83	65	112	34	12.88	27	1231	35.08	270.4	77.69	30.16	82.58	0.61
Roger Cousens - University of Melbourne, Google Scholar Profile		163	6868	37	185.62	42.13	3597.11	67.8	3.46	40	81	21	12.6	28	430.6	20.75	174.6	64.6	25.37	97.21	0.76
Robyn Sloggett - University of Melbourne, Google Scholar Profile		47	131	26	5.04	2.79	69.04	27.79	2.45	7	10	6	2.13	4	22.34	4.73	10.08	6.86	4.34	2.65	0.15
Roberto Cappai - The University of Melbourne, Google Scholar Profile		312	14357	24	598.21	46.02	2487.19	61.31	6.08	68	115	39	10.7	27	1348	36.72	235.1	80.65	22.97	103.63	1.13
Rachel Nordlinger - University of Melbourne, Google Scholar Profile		103	1487	27	55.07	14.44	1045.94	61.34	2.25	18	36	11	9	14	132.1	11.49	84.23	27.29	14.42	38.73	0.52
Priyan Mendis - Professor of Health Economics, Google Scholar Profile		292	2434	47	51.79	8.34	753.83	102.36	3.54	22	43	17	7.12	13	318.1	17.83	84.91	32.12	13.62	16.03	0.28
Philip Batterham - University of Melbourne, Google Scholar Profile		99	4974	37	134.43	50.24	955.93	23.08	5.06	31	69	20	6.01	14	485.3	22.03	87.99	56.78	13.73	25.83	0.38
Paul Gooley - University of Melbourne, Google Scholar Profile		158	3094	34	91	19.58	742.15	40.84	5.02	32	51	20	5.92	14	330.2	18.17	72.82	33.2	13.98	21.82	0.41
Nisvan Erkal - Associate Professor, Google Scholar Profile		35	1262	20	63.1	36.06	379.02	17.18	2.54	15	35	13	5.49	10	162.6	12.75	56.44	30.89	9.1	18.95	0.5
Nikos Papastergiadis - Professor of Health Economics, Google Scholar Profile		132	2512	27	93.04	19.03	2409.98	91.9	2.28	16	49	11	11.64	15	404.9	20.12	392.7	44.87	15.14	89.25	0.56
Nick Haslam - Professor of Psychology, Google Scholar Profile		254	12815	28	457.68	50.45	6322.72	141.31	2.46	66	109	36	23.17	43	1245	35.28	577.9	76.83	38.82	225.81	1.54
Neville A McBrien - Professor of Health Economics, Google Scholar Profile		146	5361	33	162.45	36.72	2137.91	57.44	3.04	40	72	19	14.16	26	340.6	18.46	131.7	53.51	22.04	64.78	0.79
Mick Keough - Professor of Health Economics, Google Scholar Profile		168	15921	39	408.23	94.77	8249.17	74.7	2.87	46	125	21	20.35	30	1033	32.13	504.1	110.37	31.44	211.51	0.77
Michael Zypur - University of Melbourne, Google Scholar Profile		58	2523	12	210.25	43.5	865.19	23.12	3.26	21	50	18	6.3	13	396.2	19.91	134.1	43.59	9.66	72.09	1.08
Michael Tausz - University of Melbourne, Google Scholar Profile		187	4039	23	175.61	21.6	947.53	45.1	4.64	33	56	20	7.07	16	441.2	21	95.01	39.57	15.97	41.19	0.7
Michael Stewardson - The University of Melbourne, Google Scholar Profile		143	2128	24	88.67	14.88	729.55	43.83	4.2	23	42	19	5.63	12	294	17.15	80.02	30.15	12.7	30.39	0.5
Melissa C Southey - Professor of Health Economics, Google Scholar Profile		496	21344	23	928	43.03	3289.11	82.04	6.63	72	136	54	10.6	26	3368	58.04	512.9	99.55	24.95	143	1.13
Mark Considine - Professor of Health Economics, Google Scholar Profile		145	5893	32	184.16	40.64	3901.1	86.04	2.25	33	76	19	19.45	26	395.4	19.89	253.5	65.93	24.48	121.9	0.81
Marilyn Renfree - University of Melbourne, Google Scholar Profile		459	10379	47	220.83	22.61	3656.57	158.51	3.83	52	81	24	12.13	28	751.9	27.42	214.7	52.32	31.88	77.79	0.6
Marie A Bogoyevitch - Associate Professor, Google Scholar Profile		93	7059	30	235.3	75.9	2450.63	28.81	4.26	42	83	26	11.24	25	520.1	22.8	179.1	68.06	18.43	81.68	0.83
Margaret Abernethy - Sir Douglas Hoagland Research Fellow, Google Scholar Profile		42	5221	32	163.16	124.31	2440.89	18.9	2.55	23	42	20	9.12	20	323.2	17.98	143.2	67.62	11.45	76.27	0.63
Malcolm W. Wallace - Associate Professor, Google Scholar Profile		111	2210	30	73.67	19.91	740.79	34.72	4.14	30	42	14	7.76	14	188.8	13.74	59.05	24.88	16.05	24.69	0.47
Liz Sonenberg - Computing and Health Economics, Google Scholar Profile		143	3156	30	105.2	22.07	887.58	48.56	3.43	26	54	17	7.12	15	237.7	15.42	64.87	43.67	12.07	29.58	0.5
Liliana L. Bove - The University of Melbourne, Google Scholar Profile		84	1810	17	106.47	21.55	748.53	36.62	2.79	19	42	15	6.94	14	218.5	14.78	82.26	35.72	10.12	44.03	0.82
Lesley Stirling - Professor of Health Economics, Google Scholar Profile		64	725	32	22.66	11.33	513.13	31.52	3.05	13	26	9	4.97	10	58.06	7.62	32.77	20.78	9.64	16.03	0.31
Leo Goedegebuure - University of Melbourne, Google Scholar Profile		108	2265	30	75.5	20.97	848.2	41.75	3.06	29	45	14	9.56	16	200.6	14.16	69.95	29.38	15.18	28.27	0.53
Leesa Wheelahan - Ontario Institute of Health Economics Research, Google Scholar Profile		171	1730	17	101.76	10.12	1287.78	120.74	2.11	21	36	16	9.8	18	264	16.25	190.9	25.51	17.49	75.75	1.06
Leann Tilley - Biochemistry and Health Economics, Google Scholar Profile		271	8543	38	224.82	31.52	1863.08	61.65	5.18	55	87	32	9.98	21	840.4	28.99	166.3	56.85	21.9	49.02	0.55
Laura Parry - Lecturer of Health Economics, Google Scholar Profile		153	2000	29	68.97	13.07	466.37	42.17	4.46	24	42	16	5.28	12	214.1	14.63	46.3	29.5	11.85	16.08	0.41
Kate Darian-Smith - The University of Melbourne, Google Scholar Profile		160	706	31	22.77	4.41	475.26	115.38	1.68	13	24	7	6.76	10	60.25	7.76	39.62	18.44	9.67	15.33	0.32
Jon Woodhead - Australian Labor Party, Google Scholar Profile		169	9180	32	286.88	54.32	2853.34	48.67	4.85	50	94	28	12.14	29	886.9	29.78	220.4	71.34	23.2	89.16	0.91

Want more information?



■ PoP tutorial (80 tips: book & online)

- What the heck are all these metrics?
- Present your case: Find the pearls in your record
- Meeting an academic visitor
- Preparing for a job interview
- Tips for Deans and other administrators
- Where to submit your paper?
- Identifying key authors, journals & publications in a field
- Bibliometric research with Google Scholar
- Finding reviewers, examiners, keynote speakers, referees
- Tracking a forgotten conference contact
- And many many more...

■ Publications on research evaluation

- <http://www.harzing.com/research/quality-and-impact-of-academic-research>

■ Many white papers and presentations on PoP & Google Scholar

- <http://www.harzing.com/publications/white-papers>

5. What is next for citizen bibliometrics?

[Will the landscape change further?]

Commercial providers: increasingly distracted?

- Oct 2016: Thomson Reuters sells Intellectual Property & Science Business (incl. WoS)
 - Sold to Onex Private Equity (Canada) Barings Private Equity Asia (China), establishing independent company Clarivate Analytics
 - Mission is “enabling customers to discover, protect and commercialize new ideas, faster”
 - What does this mean for commitment to providing bibliometric data to academics?

- 1 Jan 2017: German & Taiwanese universities boycott Elsevier journals; Peruvian government stops funding Elsevier jnls
 - Will other countries follow [2016: threats in Netherlands & Finland]?
 - Will the boycott by individual academics (currently signed by nearly 17,000 individuals) be strengthened?
 - How committed is Elsevier to individual users, their emphasis appears to be on Scival institutional use

Will the free alternatives prevail?

- Microsoft Academic (MA v2): Is the Phoenix getting wings?
 - Early signs (Harzing, 2016, Harzing & Alakangas, 2017) show *excellent* coverage and accuracy
 - For details see: <http://www.harzing.com/blog/2016/06/microsoft-academic-search-a-phoenix-arisen-from-the-ashes>
 - MS Research is **very** responsive to user feedback, is actively addressing problems, as well as developing new features, incl. self-managed academic profiles (I have beta-tested them)
- What is happening to Google Scholar?
 - After the very interesting 10-year anniversary articles in 2014 very little has been added to their blog and to GS functionality
 - Only 2 posts in 2015, 4 in 2016, last post half a year old
 - No significant recent news coverage on Google Scholar apart from a Nature article on the launch of Microsoft Academic “aiming to outdo Google Scholar”
- So hopefully we’ll learn more in the next presentation!

But first?



Any questions or comments?