

Do Science Articles in Wikipedia reflect on state-of-the-art Research?

Study of Wikipedia-metrics in articles about Social Sciences

Olga Zagovora











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Gender pay gap

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Scholarly articles for Gender pay gap

... ceiling over Europe? Exploring the gender pay ga ... international differences in the gender pay gap - E

The US gender pay gap in the 1990s: Slowing ... - E

The gender pay gap is the average differen between a man's and a woman's wages or

Gender pay gap - Wikipedia

https://en.wikipedia.org/wiki/Gender_pay_ga References

Gender pay gap

From Wikipedia, the free encyclopedia

The gender pay gap is the average difference between a man's and a woman's wages or salaries.

There are two distinct numbers regarding the pay gap: unadjusted versus adjusted pay gap which takes into account differences in hours worked, occupations chosen, education and job experience.

For example, someone who takes time off (e.g. maternity leave) will likely not earn as much as someone who does not take time off from work. Factors like this contribute to lower yearly earnings for women, but when all external factors have been adjusted for, there still exists a gender pay gap in many situations (between 4.8% and 7.1% according to one study). Unadjusted pay gaps are much higher. In the United States, for example the unadjusted average female's annual salary has commonly been cited as being 78% of the average male salary.[1]

The World Economic Forum provides recent data from 2015 that evaluates the gender pay gap in 145 countries. Their evaluations take into account economic participation and opportunity, educational attainment, health and survival, and political empowerment scores.[2]

Contents [show]

Over time

A wide-ranging meta-analysis by Doris Weichselbaumer and Rudolf Winter-Ebmer (2005) of more than 260 published adjusted pay gap studies for over 60 countries has found that, from the 1960s to the 1990s, raw wage differentials worldwide have fallen substantially from around 65 to 30%. The bulk of this decline, however, was due to

e unexplained component of nd Winter-Ebmer found that s, implying a slow level of

 O'Brien, Sara Ashley (April 14, 2015).
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 Weichselbaumer, Doris; Winter-Ebmer, Rudolf (2005). "A Meta-Analysis on the International Gender Wage Gap" (PDF). Journal of Economic Surveys, 19 (3): 479–511, doi:10.1111/i.0950-0804.2005.00256.x €.

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Main Steps: 1. Get set of articles about social sciences

[hide]

Anthropology

Outline · History

Archaeological · Biological · Cultural ·

Linguistic · Social

Archaeological Aerial • Aviation • Battlefield • Biblical •

Bioarchaeological · Environmental · thnoarchaeological · Feminist · Forensic ·

Maritime · Paleoethnobotanical ·

Zooarchaeological

· Forensic · Molecular · Neurological · Nutritional · Palaeoanthropological ·

> Primatological Social · Cultural

Applied • Art • Cognitive • Cyborg • Development • Digital • Ecological •

Medical · Museums · Musical · Political ·

Transpersonal · Urban · Visual

Linguistic

Ethnopoetical · Historical · Semiotic

Sociological

Anthropometry · Ethnography (online) · Ethnology · Cross-cultural comparison ·

Thick description · Cultural relativism ·

Ethnocentrism · Emic and etic Key concepts

Culture · Development · Ethnicity · Evolution (sociocultural) · Gender ·

Research framework [hide]

- 1. get start point links from Template Social Sciences
 - add links to a list of pages
- 2. go to each page and find all templates
 - Filter templates
- 3. Get links from each Data: 2698 articles template

• add links to the list of 23-25.05.17 WikiCite Conference

Social sciences V.T.E Anthropology (archaeology · cultu Economics (microeconomics · m Geography (human · integrative) political - social) - Law (jurisprud legal systems) · Political science Primary psephology · public administratio Psychology (abnormal · biologica Anthrozoological · Biocultural · Evolutionary personality - social) - Sociology internet · rural · urban) Anthrozoology · Area studies · Bu Cognitive science · Communicati Environmental · Economic · Political economy Community studies · Cultural stu Historical · Feminist · Kinship · Legal · Media · Psychological • Public • Religion • Symbolic • Education - Environmental (soci Food studies · Gender studies · (Anthropological · Descriptive · Ethnological · History of technology · Human ec Interdisciplinary International studies · Media stud (economics · history · psychology (land use · regional · urban) · Pol Participant observation · Holism · Reflexivity · Political economy · Public health Science and technology studies . Social work Kinship and descent · Meme · Prehistory

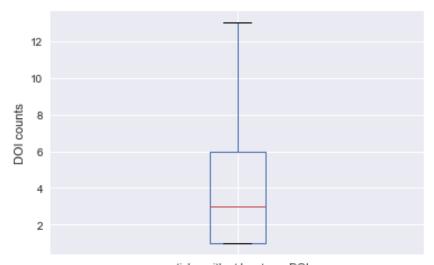
Race · Society · Value Colonialism / Postcolonialism Actor-network theory . Alliance theory .

Cross-cultural studies · Cultural materialism · Culture theory . Diffusionism . Feminism . Historical particularism · Boasian anthropology · Functionalism · Interpretive · Performance studies · Political economy Practice theory . Structuralism . Post-structuralism · Systems theory

Anthropology by year

Main Steps: 2. Mine references and metrics

- 6739 DOI
- 968 articles with at least one DOI



articles with at least one DOI

Article name	DOI counts	ISBN counts	<ref> counts</ref>
Ecology	193	38	574
Hinduism	7	201	432
Evolution	247	2	389

Main Steps: 3a. Important articles in*metrics the field

- WoS highly cited papers
 - 1% of the most cited articles in the year
 - published during last 10 years
 - Field: Social Sciences (7679 articles with DOI), Economics (2194 articles with DOI)
- Altmetric.com articles
 with the highest
 altmetric score
 25.05.17 WikiCite Conference

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- Most cited papers from Scopus
 - published during last 10 years
 - first 2000 articles sorted by citation counts
 - Field: Social Sciences
 and About this Attention Score
 artic In the top 5% of all research



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Main Steps: 3b.Compare set of highly cited articles in the field and *Mikipedia citations • Scopus: overlap of 11 • Is the "overlap of 11 • Is the "o

- Scopus: overlap of 11 papers
- WoS Social Sc.: overlap of 54 papers
- WoS Economics: overlap of 9 papers
- Altmetric.com: overlap of 57 papers

- Is the "overlap of papers" drawn randomly from highly cited papers?
 - calculate sum of ranks
 - Simulation:
 - 10 000 random flips of labels (paper is cited in Wikipedia or not) in WoS/Scopus/Altmetric s
 - compute sum of ranks for new labeled as "cited in Wikipedia"





Article name	Citation counts	rank	Is cited in Wikipedia?
QUALITATIVE DATA ANALYSIS FOR HEALTH SERVICES	556	39	Yes
MECHANISMS LINKING SOCIAL TIES AND SUPPORT TO	380	111.5	Yes
HUMANS HAVE EVOLVED SPECIALIZED SKILLS OF SOCI	315	175	Yes
EARLY HUMAN USE OF MARINE RESOURCES AND PIGMEN	312	177	Yes
	•••		

Simulation 1: WoS, Social

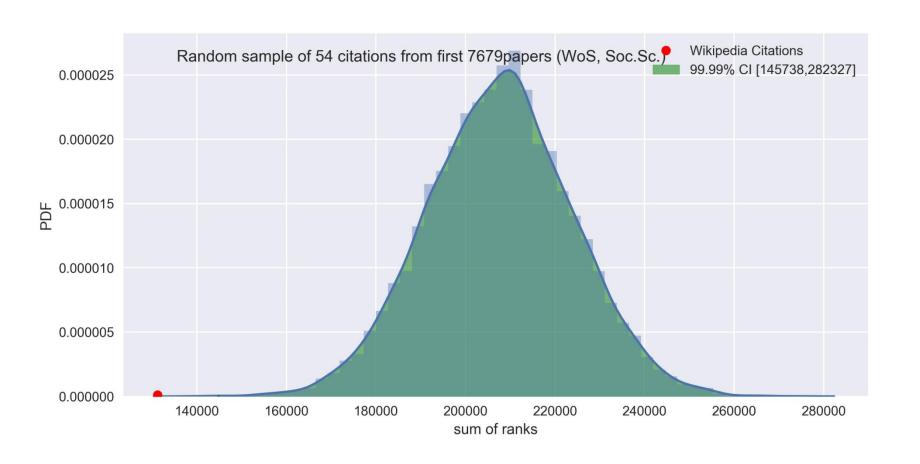


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Article name	Citation counts	rank	Is cited in Wikipedia?	
QUALITATIVE DATA ANALYSIS FOR HEALTH SERVICES	556	39	No	
ARTICLE1 name	420	65	Yes	
ARTICLE2 name	417	66	Yes	
•••			•••	
MECHANISMS LINKING SOCIAL TIES AND SUPPORT TO	380	111.5	No	
•••		R	epeat 10 000	
HUMANS HAVE EVOLVED SPECIALIZED SKILLS OF SOCI	315	175	times	
ARTICLE3 name	314	176	Yes	
EARLY HUMAN USE OF MARINE RESOURCES AND PIGMEN	312	177	No	
ARTICLE4 name	210	198	Yes	

Simulations: WoS, Social Sciences *Metrics





Findings and Future Work



- Wikipedia citations tend to have higher
 - number of citations
 - from Web of Science
 DB
 - for most data chunks of Scopus
 - altmetric score
- Overlap of articles from Wikipedia and highly cited set is very small

- probability of getting exactly x citations from set of highly cited papers was omitted
- only papers with DOI were considered in all datasets
- only social science and economics were studied

ndy Englis



-MEasuring The Reliability and perceptions of Indicators for interactions with sCientific productS

- Objective:
 - develop a deeper understanding of *metrics (aka altmetrics / social media metrics), in terms of their general significance and their perception amongst stakeholders.
- Key considerations:
 - will include the quality of *metrics' underlying data (in terms of validity and reliability),
 - their ability to adequately assess scientific outputs against the background of disciplinary specificities conference

Facts

Status: active

Project duration: 2017-01-01 - 2018-12-31

Key words

Electronic Publishing

Open Access

Metrics

Funding

Funding duration 2017-01-01 – 2019-12-31

German Research Foundation (DFG)

https://metrics-project.net/



Thank you / Vielen Dank!

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- Facebook @metricsproject











*metrics

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