

# RANDOM WALK IN THE ACADEMIC PUBLICATION

A data-driven approach

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## Authors

Fields for author information, academic history, and impact measures are included in the authors' table. This table contains 253144301 rows. The fields are listed in the table below.

Table 1: Authors Table Schema

Field Name	Field Type	Description	Example
id	string/long	author id	53f42f36dabfaedce54dcd0c
name	string	author name	Jiawei Han
normalized_name	string	normalized author name	jiawei han
orgs	list of strings	author affiliations	["Department of Computer Science, University of Illinois at Urbana-Champaign"]
org	string	author organization	Department of Computer Science, University of Illinois at Urbana-Champaign
last_known_aff_id	long	last known affiliation	157725225
position	string	author position	professor
n_pubs	int	the number of author publications	1217
n_citation	int	author citation count	191526
h_index	int	author h-index	175
tags.t	string	research interests	"data mining"
tags.w	int	weight of interests	243
pubs.i	string/long	author paper id	53e9b9fbb7602d97045f7bb8
pubs.r	int	author order in the paper	0

## Citation Overview

The Top 10 Frequency of Total Authors' Citations

Number of Citation	Frequency	Percent Share
0	159758931	63.1%
1	20144876	8.0%
2	11136954	4.4%
3	7359595	2.9%
4	5347158	2.1%
5	4136283	1.6%
6	3338694	1.3%
7	2791633	1.1%
8	2365922	0.9%
9	2049786	0.8%

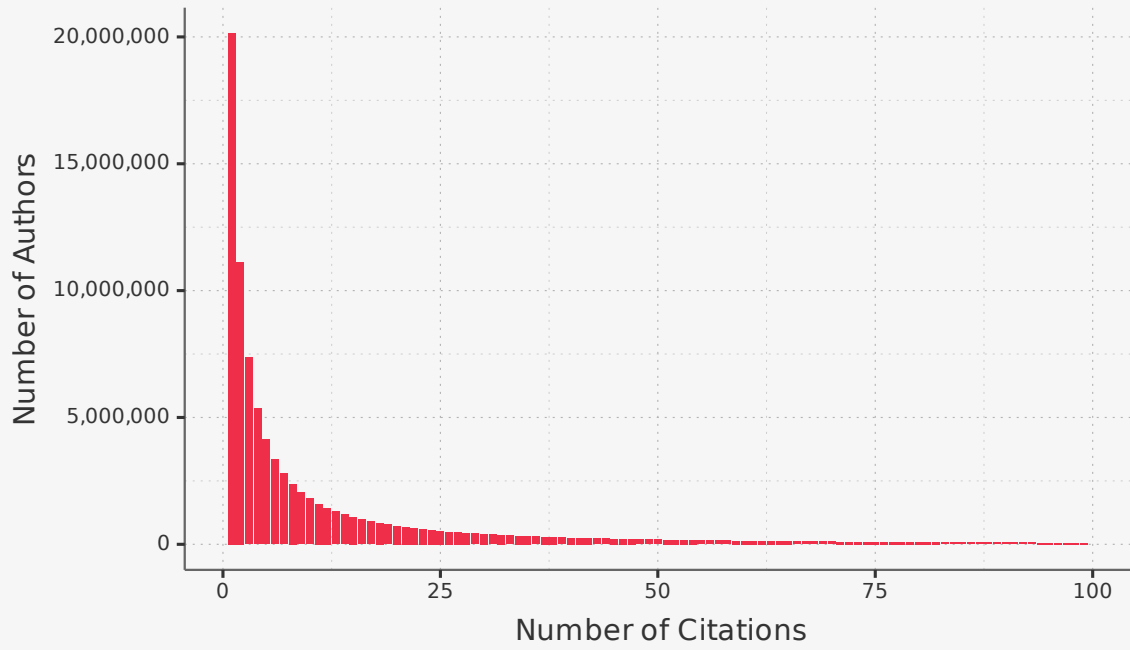


Figure 1: The Frequency of Authors by Number of Total Citations

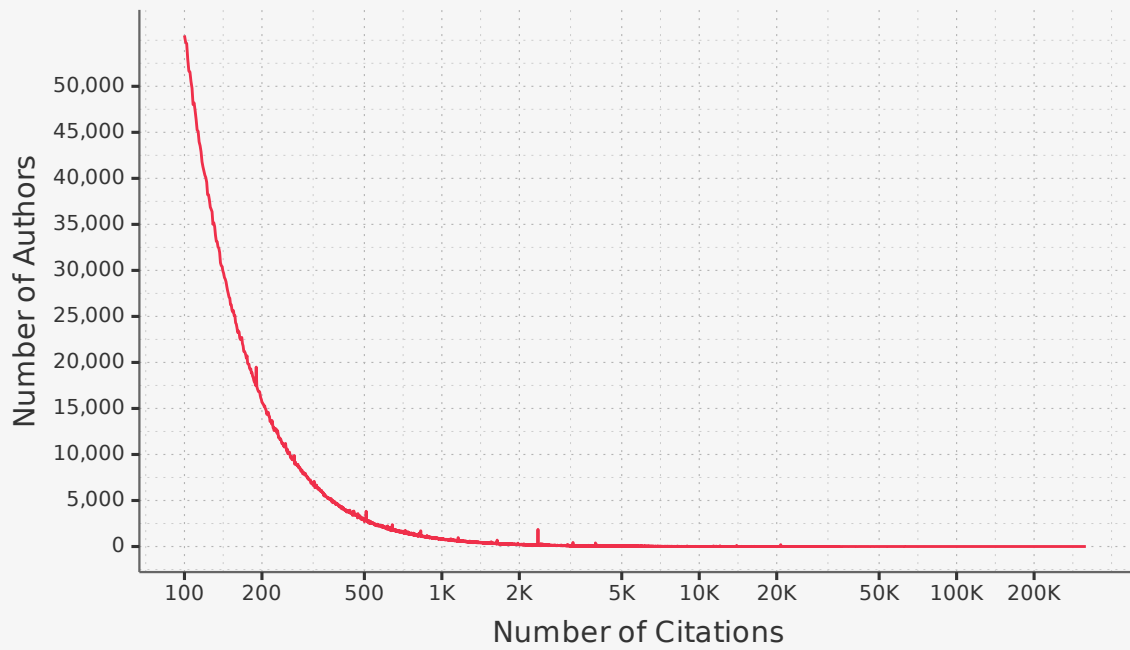


Figure 2: The Frequency of Authors by Number over Total Citations 100

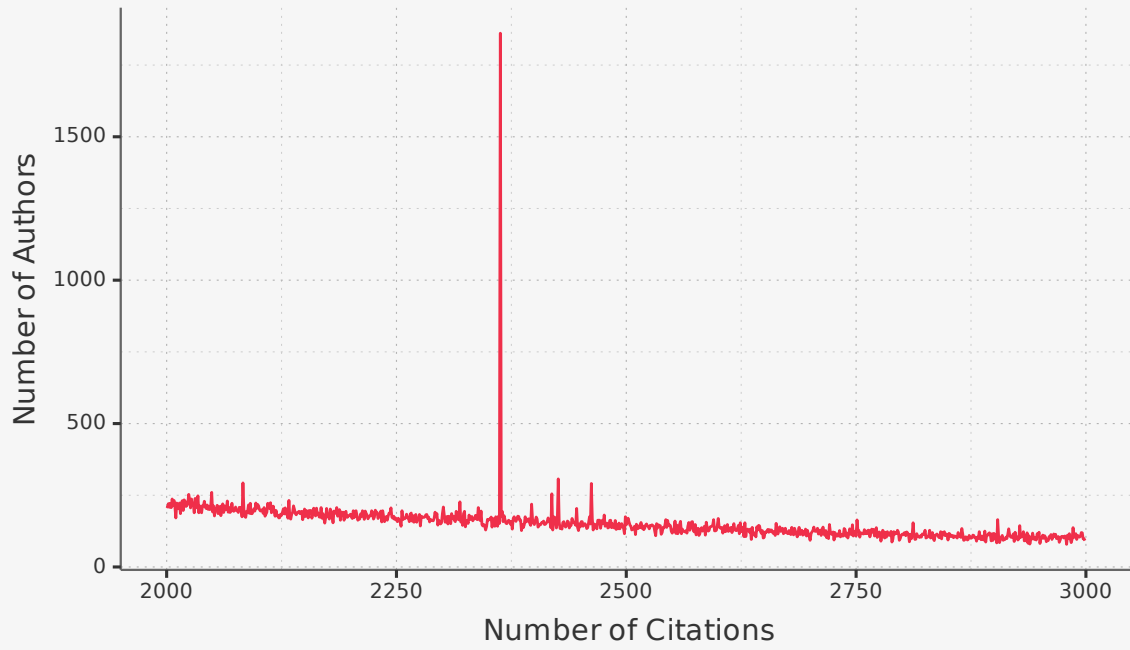


Figure 3: Strange Jump in Total Citations Density Function

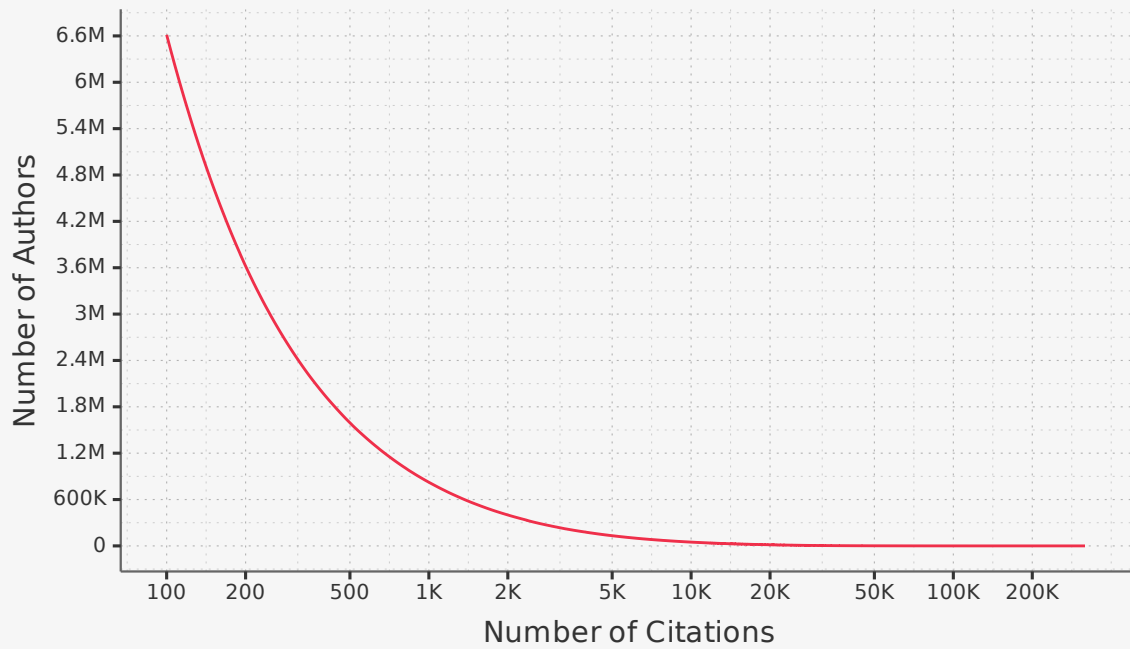


Figure 4: Tail Distribution of Authors over Total Citations 100

## Number of Publication

The Top 10 Frequency of Total Number of Authors' Publications.

Number of Publication	Frequency	Percent Share
1	210702425	83.2%
2	18059438	7.1%
3	7251838	2.9%
4	3950886	1.6%
5	2477118	1.0%
6	1718516	0.7%
7	1248849	0.5%
8	954450	0.4%
9	748627	0.3%
10	605597	0.2%

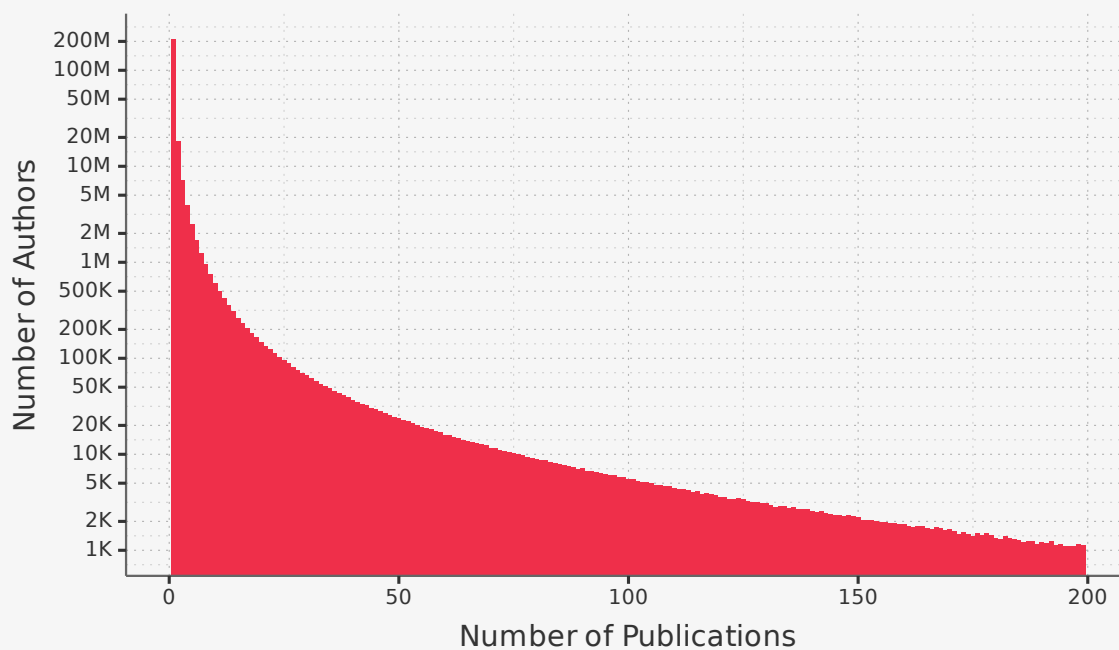


Figure 5: The Frequency of Authors by Number of Total Publications

