Who's Who in Goldbach Research

The Top 100

Researchers active on Goldbach and adjacent problems

The list is sortable on any column. Type in the search box to filter by name, institution, or country. Click any name for that researcher's profile page.

This page shows the 100 highest-ranked living researchers, renumbered 1 to 100. Researchers in the ranked pool who have passed away are remembered on the In Memoriam page.

> **Reading the columns.** *arXiv rank*, *OA rank*, and *zbMATH rank* are the researcher's position in the full composite score for each of three pipelines. For arXiv and OpenAlex a keyword match in a paper title counts at full weight and an abstract-only mention at half (A=0.5), so papers that only cite Goldbach in passing are discounted; each composite is then 60% weighted paper count + 40% network or citation signal, over arXiv (137 qualifying authors across 17 search terms) and OpenAlex (572 authors across 13 phrase queries). zbMATH (495 authors) uses the three Goldbach-core MSC classes 11P32, 11P55 and 11N36. The overall rank combines the three with a weighted order statistic, 70/20/10 on each researcher's best, middle and worst of the three ranks, so lower is better in every column and a single dominant Goldbach pipeline can carry a researcher (the top weight only ever lands on a measured rank). A value in [square brackets] is interpolated: the researcher did not appear in that pipeline directly, so their rank there is estimated from their position in the others. See the methodology for how. A dash means no estimate was possible.

Country All Source All

25 entries per page Search:

Rank	Name	Institution	Country	arXiv rank	OA rank	zbMATH rank	h-index	Source	First year	Last year
1	Trevor D. Wooley	Purdue University West Lafayette	US	7	5	1	35	all_three	1990	2026
2	Jörg Brüdern	University of Göttingen	DE	[31]	2	2	19	oa+zb	1991	2024
3	Janos Pintz	Hungarian Academy of Sciences	HU	34	1	4	26	all_three	1992	2025
4	Terence Tao	University of California, Los Angeles	US	3	3	44	121	all_three	2004	2025
5	D. A. Goldston	San Jose State University	US	40	4	17	21	all_three	1990	2023
6	Kaisa Matomäki	University of Turku	FI	6	7	48	21	all_three	2007	2025
7	Jianya Liu	Shandong University	CN	[36]	20	5	21	oa+zb	1996	2025
8	Koichi Kawada	Iwate University	JP	[43]	17	6	9	oa+zb	1993	2019
9	Alessandro Languasco	University of Padua	IT	49	18	8	18	all_three	1994	2024
10	Joni Teräväinen	University of Cambridge	GB	2	11	107	13	all_three	2016	2026
11	Jinjiang Li	China University of Mining and Technology (Beijing)	CN	36	10	25	7	all_three	2016	2026
12	Jared Duker Lichtman	Stanford University	US	4	25	[79]	11	arx+oa	2019	2024

Rank	Name	Institution	Country	arXiv rank	OA rank	zbMATH rank	h-index	Source	First year	Last year
13	Xuancheng Shao	University of Kentucky	US	1	8	137	10	all_three	2013	2025
14	Angel Kumchev	Towson University	US	85	9	10	16	all_three	1997	2022
15	R. C. Vaughan	Pennsylvania State University	US	[40]	75	3	35	oa+zb	1973	2022
16	Igor E. Shparlinski	Macquarie University	AU	12	31	33	53	all_three	2002	2025
17	Kevin Ford	High Point University	US	8	[54]	36	27	arx+zb	2009	2019
18	Alberto Perelli	University of Genoa	IT	[42]	21	16	20	oa+zb	1985	2019
19	Alexander P. Mangerel	Durham University	GB	9	[32]	[70]	6	arxiv_only	2014	2025
20	John Friedlander	University of Toronto	CA	[24]	19	39	34	oa+zb	1978	2023
21	Andrew Granville	Université de Montréal	CA	19	24	41	44	all_three	1988	2023
22	Min Zhang	Jiangnan University	CN	37	12	69	8	all_three	2016	2025
23	Yingchun Cai	Tongji University	CN	[37]	13	66	27	oa+zb	1989	2022
24	Ben Green	Mathematical Institute of the Slovak Academy of Sciences	SK	5	46	105	47	all_three	2004	2025

Rank	Name	Institution	Country	arXiv rank	OA rank	zbMATH rank	h-index	Source	First year	Last year
25	William D. Banks	University of Missouri	US	24	16	73	26	all_three	2002	2025

Showing 1 to 25 of 100 entries « ‹ 1 2 3 4 › »

Ranks shown in [square brackets] are interpolated estimates, not measured values. How interpolation works.

Source column legend

The **Source** column records which of the three pipelines ranked each researcher directly. Where a pipeline did not rank someone, the rank shown for that pipeline is an interpolated estimate (in [square brackets]).

- `all_three`: ranked directly by arXiv, OpenAlex, and zbMATH. The unanimous core.
- `arx+oa`: ranked by arXiv and OpenAlex, but not zbMATH.
- `arx+zb`: ranked by arXiv and zbMATH, but not OpenAlex.
- `oa+zb`: ranked by OpenAlex and zbMATH, but not arXiv.
- `arxiv_only`: ranked only by the arXiv pipeline.
- `oa_only`: ranked only by OpenAlex. Often senior figures who publish in journals and do not post preprints.
- `zb_only`: ranked only by zbMATH. Often pre-1995 Russian and Chinese number theorists that arXiv and OpenAlex under-index.

Source	Count
`all_three`	38
`oa+zb`	17
`zb_only`	15