

Declining contribution of the United States federal government to global research corpus

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The authors made the following contributions. Emilio M. Bruna: Conceptualization, Methodology, Investigation, Formal analysis, Data curation, Visualization, Writing - Original Draft Preparation, Writing - Review & Editing, Project administration, Supervision.

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Supplementary Information

Downloading data.

Validating USGS publications and author affiliations. The list of publications by USGS authors was downloaded in .csv format from the USGS Publications Warehouse USGS Download Link. This file includes a list of all publications and their metadata including the names of authors and - in the case of USGS affiliates - their email addresses. This allowed us to identify each publication's USGS authors and assign them the Scopus affiliation code for the USGS (60011347).

We then used the DOI of articles in the USGS file to determine (1) if any publications in the USGS file were missing from the Scopus data set and (2) validate the federal affiliation of authors for articles that were found in both the USGS and Scopus data sets (over XX% of the articles in the USGS were represented in the Scopus downloads). After correcting these federal affiliations, we used the Scopus Author ID numbers of these USGS authors to search for and correct any name variants that might be present in the data set (e.g., A Powell, Abigail Powell, Abby Powell).

Validation federal affiliations.

Productivity at focal universities. The search of university productivity was conducted using $N = 487$ Scopus affiliation IDs. It resulted in $N = 688,062$ publications with $N = 6,142,072$ authors. There were $N = 1,702,412$ unique authors in the data set, of which $N = 348,688$ had one of the focal universities as their primary affiliation. Each article had an average of $N = 8.9 \pm 12$ SD authors, of which 2.7 ± 3.2 SD were affiliated with the focal universities.

University	N - 1st Author (%)
Harvard University	63,034 (16.41%)
University of Michigan	38,943 (10.14%)
University of Pennsylvania	37,384 (9.73%)
Stanford University	36,513 (9.51%)
University of California, Los Angeles	29,944 (7.8%)
University of Florida	28,477 (7.41%)
University of Washington	27,763 (7.23%)
The Ohio State University	26,704 (6.95%)
University of Minnesota	25,680 (6.69%)
University of California, San Diego	25,060 (6.52%)
UNC Chapel Hill	23,031 (6%)
University of California, San Francisco	21,576 (5.62%)