

A New Way to Access Researcher Data: The Web of Science Researcher API

Benjamin Gross

Background

Web of Science Researcher Profiles were added to WoS in 2022. Evolving from Publons and ResearcherID, WoS Researcher Profiles allow users to track and highlight their research output right in the Web of Science, including publications, peer reviews, and editorial work.

Basic biographical information, optionally upload a photo

Alternate published names and organization history

Set up alerts based on recent publication or citation activity

Verify your Author Record

Metrics

1550 Documents

166 H-index

15,177 Sum of Times Cited

1549 Publications in Web of Science

10,506 Citing Articles

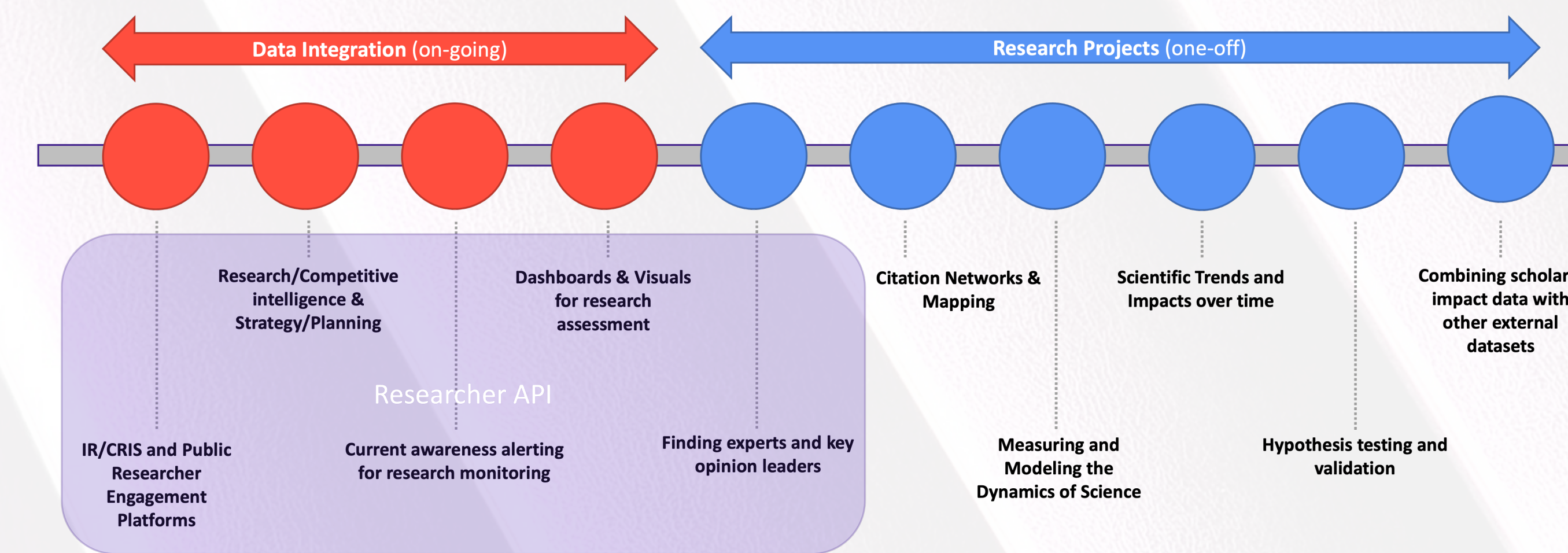
Peer review activity

Metrics based on Web of Science core collection data

Publication history, including those not indexed in WoS if entered on claimed profile

Now, with a subscription to the new **Researcher API** institutions can access this valuable data programmatically and in bulk. The data feed includes publication and review history for each researcher, as well as basic metrics such as total times cited counts and h-index. Publication lists for unclaimed profiles are algorithmically generated, while claimed profiles are curated by the researchers themselves.

Use Cases for the Researcher API



- Populate external profiles, e.g. VIVO
- Internal use cases, e.g. pre-populate FAR or CRIS
- Get latest researcher metrics
- Use as seed data for algorithmic clustering searches, such as those used by Harvard Profiles
- Find and track output of leading researchers within a topic

Features

Discovery using advanced search syntax

- Attribute searches are possible with = (equals), ! (not), and ~ (includes)

Filters

Limit results to claimed (or unclaimed) profiles, filter by country of primary affiliation, organization, or topic.

Example searches

- Search for people by topic and country: Country = "England" AND Topic ~ "robotics"
- Search for claimed profiles based on name and organization: FirstName ~ "Eugene" AND LastName ~ "Garfield" and OG~"Institute for Scientific Information" and claimStatus=true

Example Data

Search for researchers doing work in leukemia, with an affiliation including California.

/researchers?q=TS~"leukemia" and OG~"California"&sort=NumberOfDocuments

```
1: {
2:   "id": "A-1009-2008",
3:   "type": "Researcher",
4:   "list": 10,
5:   "hits": 1,
6:   "page": 1,
7:   "total": 1,
8:   "first": "Garfield, Eugene",
9:   "last": "Garfield, Eugene",
10:  "full": "Garfield, Eugene",
11:  "firstInitial": "Eugene",
12:  "lastInitial": "Garfield",
13:  "alternativeNames": [
14:    {
15:      "name": "Garfield, E.",
16:      "numberOfDocuments": 1528
17:    },
18:    {
19:      "name": "Garfield, Eugene",
20:      "numberOfDocuments": 19
21:    },
22:    {
23:      "name": "Garfield, E.",
24:      "numberOfDocuments": 2
25:    },
26:    {
27:      "name": "Garfield, E.",
28:      "numberOfDocuments": 1
29:    }
30:  ],
31:  "metrics": {
32:    "total": 1549,
33:    "hIndex": 167,
34:    "count": 1549,
35:    "source": "/researchers/A-1009-2008/documents",
36:    "publishedYear": 2016,
37:    "year": 2016,
38:    "numberOfDocuments": 2
39:  },
40:  "year": 2015,
41:  "numberOfDocuments": 1
42: },
43: }
```

Search result data fields

- ResearcherID
- Full name
- Primary affiliation
- h-index
- Total document count
- Total times cited
- Snippets of matched fields, with highlighting

Search results can be sorted by relevance, number of documents published, primary affiliation, and name.

Retrieve details for individual

/researchers/A-1009-2008

Search result data fields

- ResearcherID
- ORCID
- WoS profile claim status
- Alternative names
- H-index
- Document counts (total and by year)
- Total times cited (with/without self)
- Total citing publications (with/without self)
- Affiliations
- Start and end year
- Number of documents with affiliation
- Author position statistics (first, last, corresponding)

```
1: {
2:   "id": "A-1009-2008",
3:   "type": "Researcher",
4:   "list": 10,
5:   "hits": 1,
6:   "page": 1,
7:   "total": 1,
8:   "first": "Garfield, Eugene",
9:   "last": "Garfield, Eugene",
10:  "full": "Garfield, Eugene",
11:  "firstInitial": "Eugene",
12:  "lastInitial": "Garfield",
13:  "alternativeNames": [
14:    {
15:      "name": "Garfield, E.",
16:      "numberOfDocuments": 1528
17:    },
18:    {
19:      "name": "Garfield, Eugene",
20:      "numberOfDocuments": 19
21:    },
22:    {
23:      "name": "Garfield, E.",
24:      "numberOfDocuments": 2
25:    },
26:    {
27:      "name": "Garfield, E.",
28:      "numberOfDocuments": 1
29:    }
30:  ],
31:  "metrics": {
32:    "total": 1549,
33:    "hIndex": 167,
34:    "count": 1549,
35:    "source": "/researchers/A-1009-2008/documents",
36:    "publishedYear": 2016,
37:    "year": 2016,
38:    "numberOfDocuments": 2
39:  },
40:  "year": 2015,
41:  "numberOfDocuments": 1
42: },
43: }
```

Metadata for documents published

/researchers/A-1009-2008/documents

```
1: {
2:   "metadata": {
3:     "total": 1549,
4:     "page": 1,
5:     "list": 10,
6:     "hits": 1,
7:     "page": 1,
8:     "total": 1,
9:     "first": "Garfield, Eugene",
10:    "last": "Garfield, Eugene",
11:    "full": "Garfield, Eugene",
12:    "firstInitial": "Eugene",
13:    "lastInitial": "Garfield",
14:    "alternativeNames": [
15:      {
16:        "name": "Garfield, E.",
17:        "numberOfDocuments": 1528
18:      },
19:      {
20:        "name": "Garfield, Eugene",
21:        "numberOfDocuments": 19
22:      },
23:      {
24:        "name": "Garfield, E.",
25:        "numberOfDocuments": 2
26:      },
27:      {
28:        "name": "Garfield, E.",
29:        "numberOfDocuments": 1
30:      }
31:    ],
32:    "metrics": {
33:      "total": 1549,
34:      "hIndex": 167,
35:      "count": 1549,
36:      "source": "/researchers/A-1009-2008/documents",
37:      "publishedYear": 2016,
38:      "year": 2016,
39:      "numberOfDocuments": 2
40:    },
41:    "year": 2015,
42:    "numberOfDocuments": 1
43:  },
44: }
```

Document data fields

- Article title
- Accession number (aka UID/UT)
- Type
- Journal (source) title
- Year
- Publication sort date
- Volume
- Issue
- Citation count from Web of Science Core Collection
- DOI
- PMID

Peer review data is also available via a separate endpoint!



Visit our GitHub page for code samples



Documentation available on our Developer Portal

