

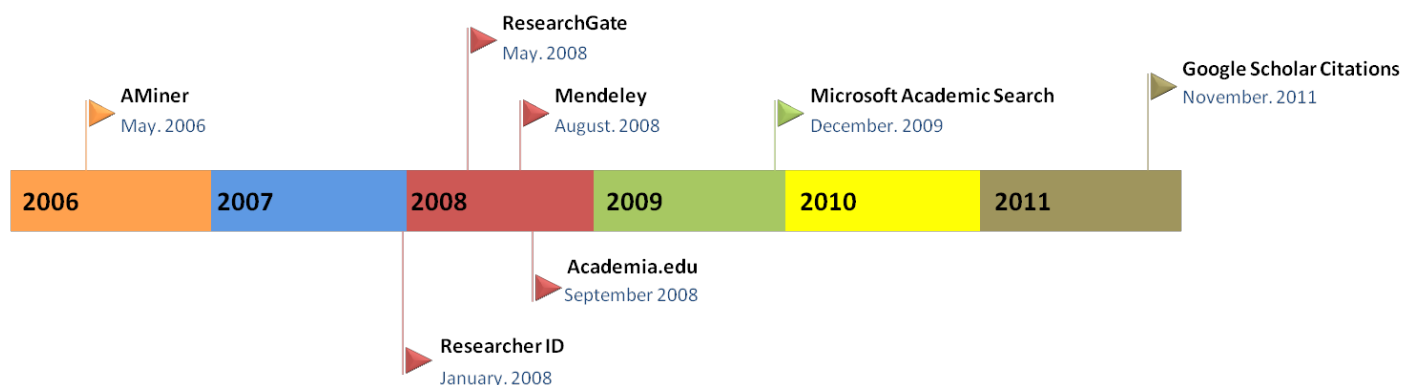
The role of ego in academic profile services: Comparing Google Scholar, ResearchGate, Mendeley, and ResearcherID

Academic profiling services are a pervasive feature of scholarly life. [Alberto Martín-Martín](#), [Enrique Orduna-Malea](#) and [Emilio Delgado López-Cózar](#) discuss the advantages and disadvantages of major profile platforms and look at the role of ego in how these services are built and used. Scholars validate these services by using them and should be aware that the portraits shown in these platforms depend to a great extent on the characteristics of the “mirrors” themselves.



The model of scientific communication has recently undergone a major transformation: the shift from the “Gutenberg galaxy” to the “Web galaxy”. Following in the footsteps of this shift, we are now also witnessing a turning point in the way science is evaluated. The “Gutenberg paradigm” limited research products to the printed world (books, journals, conference proceedings...) published by scholarly publishers. This model for scientific dissemination has been challenged since the end of the twentieth century by a plethora of new communication channels that allow scientific information to be (self-)published, indexed, searched, located, read, and discussed entirely on the public Web, one more example of the [network society](#) we live in.

In this new scenario, a set of new scientific tools are now providing a variety of metrics that measure all actions and interactions in which scientists take part in the digital space, making some hitherto overlooked aspects of the scientific enterprise emerge as objects of study. In the words of [Jason Priem](#) the First Revolution promoted the homogeneity of outputs (through academic journals, the main communication channel), and the Second Revolution promotes the diversity of outputs. We can draw a comparison between those revolutions and the changes that are taking place in the field of scientific evaluation: the First Revolution promoted the homogeneity of performance metrics (through the Impact Factor, the “gold standard” of scientific evaluation), and the Second Revolution promotes a diversity of metrics (h-index, altmetrics, usage metrics). The emergence of academic profiling services (most of them created in 2008) was a collateral consequence.



Because each of these tools focuses on fulfilling a different set of needs, caters to a specific audience (diverse communities), and provides a variety of different metrics, it stands to reason that they should reflect different sides of academic impact. Each platform becomes then a mirror reflecting the likeness of the communities that use it.

Recently, we set out to radiograph the discipline of Bibliometrics, not only trying to identify the core authors, documents, journals, and the most influential publishers in the field, but also comparing the diverse portraits shown by each platform, with special attention to the one offered by Google Scholar Citations. We collected data for a

sample of 814 researchers who work mainly or incidentally in the field of Bibliometrics. These data can be browsed in the website [Scholar Mirrors](#), and an analysis of the results can be found in [this working paper](#).

During this exercise we isolated some of the main features of these academic profiling services (Google Scholar Citations, ResearchGate, Mendeley, and ResearcherID) in terms of their general advantages and disadvantages, which are summarized below in Table 1.

TABLE 1: COMPARISON OF DIFFERENT ACADEMIC PROFILING SERVICES

GOOGLE SCHOLAR CITATIONS

ADVANTAGES	DISADVANTAGES
<ul style="list-style-type: none"> ▪ Widest coverage: all languages, sources, disciplines, and document types (more than 170 million documents in Google Scholar, from which it feeds) ▪ High growth rate ▪ N° of citations three times larger than ResearchGate, four times larger than ResearcherID ▪ Diverse audience: researchers, practitioners, scholars, and general users. ▪ Automatic updates ▪ Metrics: simple and easy to understand ▪ User-friendly ▪ Alerts (new citations and publications of any profile) 	<ul style="list-style-type: none"> ▪ Scarce quality control ▪ Open to manipulation. Hard to discover, and easy to influence metrics. ▪ Inherits bibliographic mistakes from Google Scholar ▪ Lack of transparency about data source (size and coverage) ▪ Lack of social features

RESEARCHERID

ADVANTAGES	DISADVANTAGES
<ul style="list-style-type: none"> ▪ Top quality control: peer reviewed publications ▪ Audience selected and filtered: researchers ▪ Hard to manipulate ▪ Offers advanced bibliometric indicators 	<ul style="list-style-type: none"> ▪ Its document base is the Web of Science Core Collection. Therefore, it is biased towards the English/American world (countries and language) as well as towards the hard sciences to the detriment of Social Sciences and Humanities ▪ Not used by many authors. ▪ Low growth rate ▪ No automatic updates: most profiles empty or outdated ▪ Not very user-friendly ▪ Metrics limited to citation metrics.

RESEARCHGATE

ADVANTAGES	DISADVANTAGES
<ul style="list-style-type: none"> ▪ Very high growth rate ▪ Wide size (80 million bibliographic references) currently wider than WoSc (62 million) and Scopus (61 million) ▪ Increasingly used by the scientific community, with strong presence of biomedical community ▪ All document types covered: books, articles, proceedings, reports, thesis, etc. ▪ Diverse audience: researchers, practitioners, scholars, and general users. ▪ Offers usage data (views and downloads) ▪ User-friendly ▪ Social functions to contact other authors ▪ Possibility to mint DOI for unpublished data at no cost to the user. ▪ Easy and fast publication, and immediate visibility 	<ul style="list-style-type: none"> ▪ No automatic updates (one co-author must upload the document) ▪ Lack of transparency in its indicators ▪ Open to manipulation. Easy to discover, and hard to influence RG Score. ▪ Still not used by many authors ▪ Sends too many e-mails (by default). Política de marketing agresiva que atosiga a los autores. Aggressive marketing policies and e-mail bombing.

MENDELEY PROFILES

ADVANTAGES	DISADVANTAGES
<ul style="list-style-type: none"> ▪ Excellent bibliographic reference manager ▪ Increasingly used by community, especially by students, and university teachers ▪ All document types covered: books, articles, proceedings, reports, thesis, etc. ▪ Audience: students and teachers ▪ Offers usage data (reads) ▪ Statistics: by discipline, country, academic reader status... ▪ Allows discipline analyses ▪ Social functions (i.e. follow other authors) 	<ul style="list-style-type: none"> ▪ It draws upon Mendeley's own document database (31,8 million documents) ▪ Many profiles are empty or outdated. ▪ No automatic updates ▪ Easy to manipulate (i.e. reads). ▪ Opaque to academic search engine indexation ▪ No citation data provided ▪ Quality of metadata depends on user input

Each academic profile platform offered distinct and complementary data on the impact of scientific and academic activities as a consequence of their different user bases, document coverage, specific policies, and technical features. Not all platforms have a homogenous coverage of all scientific disciplines. Likewise, their user bases aren't uniform either. Researchers should be aware that the bibliometric portraits shown in these platforms depend to a great extent on the individual characteristics of the "mirrors" themselves.

Google Scholar Citations profiles draw upon the vast coverage of Google Scholar (giving voice to all disciplines, languages, countries; academics and professionals) at the cost of a little accuracy (errors in parsing citations or authorship) and with an austere approach (few indicators, and little user interaction). Nonetheless, it offers the most advanced management system for versions and duplicates.

Regarding **ResearchGate**, the great amount of documents already uploaded by a growing user base (especially from the biomedicine community) supports the usefulness of some of its indicators (especially Views and Downloads, now combined into **Reads**). However, the **lack of transparency** compromises its reliability. Likewise, unannounced changes in some of its key features make this platform unpredictable at the moment.

Mendeley, despite being an excellent social reference manager, offers the most basic author profiling capabilities of all the platforms we analysed, although we should acknowledge the usefulness of the Reader metric. The term used to define this metric is, however, misleading, because it doesn't accurately reflect the nature of the metric. Lastly, the fact that profiles aren't automatically updated makes the system completely dependent on user activity. This fact strongly limits the use of *Mendeley's* profile page for evaluating purposes.

ResearcherID does not offer automatic profile updates either. As a result, a great percentage of profiles have no public contributions listed in their profile (34.4% in our sample of bibliometricians, which should be the ones who are most aware of these tools). Moreover, we found errors in citation counts inherited from the Web of Science. A word of warning: the Web of Science also makes mistakes.

At any rate, the growth of academic profiling services is unstoppable, and practices like the aggressive marketing used by *ResearchGate* fuel the ego that dwells in every researcher through the systematic e-mail bombing directed to the Narcissus that lives inside of us. The potential positive effects are clear: new channels of information and new collaboration tools. However, this road might also lead us to look ourselves in the scholar mirror every day, and there lies the path to the Dark Side.

Paraphrasing Bill Clinton's famous quote for the 1992 North American presidential campaign: "**it's the economy, stupid!**" we could now state the following: it's not the collaboration; it's the ego, stupid! Ego moves Academia. These new platforms, whether they are integrated in other products or not, will be massively used by universities, research institutions, and national funding agencies to evaluate scholars, because scholars are validating them by using them massively. Hence, we should not conclude without warning about the dangers of blindly using any of these platforms for the assessment of individuals without verifying the veracity and exhaustiveness of the data.

This blog post is based on a working paper which can be [found here](#). All the data obtained for each author profile and the results of the analysis can be found at [Scholar Mirrors](#). Featured image credit: [William Murphy The sculpture 'Eco' outside the New Library at the Queen's University of Belfast](#) (Flickr, CC BY-SA)

Note: This article gives the views of the author, and not the position of the LSE Impact blog, nor of the London School of Economics. Please review our [Comments Policy](#) if you have any concerns on posting a comment below.

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