



Microsoft Academic Graph

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Overview Publications Microsoft Research blog Projects

The Microsoft Academic Graph is a heterogeneous graph containing scientific publication records, citation relationships between those publications, as well as authors, institutions, journals,

conferences, and fields of study. This graph is used to power experiences in Bing, Cortana, Word, and in [Microsoft Academic](#). The graph is currently being updated on a weekly basis.

Access the Microsoft Academic Graph

- Microsoft Academic Graph (MAG) on Azure Storage (AS)

For analytic and research usage scenarios, we offer an automated distribution service that uploads new versions of MAG to Azure Storage accounts. This option enables you to access the entire knowledge graph in an efficient and highly private manner. Please see [Microsoft Academic Graph](#) documentation for details.

Not sure what insights MAG can provide through analytics?

- [Samples of analytics and visualization using Data Lake Analytics](#)
- In-depth example of [using Data Lake Analytics and Power BI to provide insights about ECCV](#), an academic conference in the field of computer vision

- Microsoft Academic Knowledge API

For demonstration and lightweight usage scenarios, we provide a REST-based [Academic Knowledge API](#) available through Cognitive Services Labs. The API is free, but there are a monthly quota and traffic throttles. The calls are routed through the public internet, and the callers have to share the resources.

- Microsoft Academic Knowledge Exploration Service (MAKES)

MAKES is a portable version of the Academic Knowledge API that can be deployed and setup on private Azure subscriptions. Similar to MAG on AS, we offer an automated distribution service that uploads everything you need to setup and deploy Azure resources to host private instances of the Academic Knowledge API. The private instances are not rate limited and can be scaled up to more powerful hardware configurations based on required performance scenarios. Please see [Microsoft Academic Knowledge Exploration Service](#) documentation for details.

Azure resources are available

Microsoft is offering free Azure tools and resources for students and educators. Please do not miss out these opportunities at [Azure for Education](#) website.

Still prefer data download?

Additionally, regular snapshots of Microsoft Academic Graph has been made available for download by [Open Academic Society](#). Please see [Open Academic Graph](#) for more details.

We kindly request that any published research that makes use of this data cites our paper listed below:

Arnab Sinha, Zhihong Shen, Yang Song, Hao Ma, Darrin Eide, Bo-June (Paul) Hsu, and Kuansan Wang. 2015. An Overview of Microsoft Academic Service (MAS) and Applications. In *Proceedings of the 24th International Conference on World Wide Web (WWW '15 Companion)*. ACM, New York, NY, USA, 243-246.
DOI=<http://dx.doi.org/10.1145/2740908.2742839>

Related Links

- [Microsoft Academic \(website\)](#)
- [Microsoft Academic \(project page\)](#)
- [Microsoft Cognitive Services](#)
- [Microsoft Cognitive Services Academic Knowledge API](#)
- [Open Academic Graph](#)

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