

# Gaia Archive Quickstart

This document provides some information and links to get you started on working with the ESA Gaia Archive. The tutorials in the Gaia hands-on session at the Sagan Workshop 2022 are based on using the ESA archive.

## Register as archive user

If you plan on regularly requesting data from the Gaia archive it is a good idea to register as an archive user. The registration is easy and quick (and free) and offers the following facilities:

- 20 GB of space to store query results
- the option to create and share your own tables ('user tables'),
- longer timeout for large or complex query jobs.

You can register here: <https://www.cosmos.esa.int/web/gaia-users/register>

## Links to archive help pages and tutorials

**Optional.** If you want to prepare before the workshop, you can browse through the below pages to familiarise yourself with the Gaia archive.

- ESA Gaia archive: <https://gea.esac.esa.int/archive/>
- Entry page for help on using the archive and Gaia data documentation: <https://www.cosmos.esa.int/web/gaia-users/archive>
- Graphical user interface: <https://www.cosmos.esa.int/web/gaia-users/archive/help>
- Demos and tutorials (see menu on left): <https://www.cosmos.esa.int/web/gaia-users/archive/help>
- Cross-matching catalogues. *This will be exercised during the workshop.* <https://www.cosmos.esa.int/web/gaia-users/archive/combine-with-other-data>
- Access to multidimensional data (spectra, mcmc samples, light curves). *This will be exercised during the workshop.* <https://www.cosmos.esa.int/web/gaia-users/archive/datalink-products>

## Gaia DR3 information

The following links provide access to information on the various aspects of Gaia DR3.

- Overview pages: <https://www.cosmos.esa.int/web/gaia/data-release-3>

- Links to papers documenting the release contents:  
<https://www.cosmos.esa.int/web/gaia/dr3-papers>
- Auxiliary data: <https://www.cosmos.esa.int/web/gaia/dr3-auxiliary-data> Some of this data is not available in the archive.
  - Note the Gaia DR3 extinction law  
(<https://www.cosmos.esa.int/web/gaia/edr3-extinction-law>)
  - and the exoplanet candidates list  
(<https://www.cosmos.esa.int/web/gaia/exoplanets>).

## Executive summary and archive tables cheat sheet

You can find a very compact summary of the Gaia DR3 contents [here](#). It contains an overview of the contents, a summary of all the papers describing the release, some useful links, and a table linking a certain data type you might be interested in to the Gaia DR3 archive table where you can find that data.