

## Job Announcement

The National Institute for Astrophysics - Observatory of Astrophysics and Space Science (INAF-OAS) are offering a one-year post doctoral position in Application of Machine Learning algorithms to data of the Gaia mission.

## Research Project

The successful candidate will develop the software and apply the Machine Learning (ML)/ Deep Learning (DL) algorithms to prepare and validate the catalogues of variable stars that will be published in Gaia Data Release 4 (DR4). Moreover, the candidate will apply the ML/DL methods for the scientific exploitation of the Gaia data (e.g. inferring missing parameters, analysing the outliers in the parameter space, searching for chemo-kinematic substructures in the Milky Way and beyond).

## Eligibility

The appointment is expected to begin by April 2023, and will be for one year in the first instance, and renewable afterwards, subject to funding availability and performance review. The yearly gross salary is 28,000 Euros.

Prospective candidates are encouraged to contact: Dr. Tatiana Muraveva (INAF-OAS; [tatiana.muraveva@inaf.it](mailto:tatiana.muraveva@inaf.it)).

The deadline for sending applications is, **January 31, 2023** (see the next page for information on the application procedure). Please use as subject: **“Post doctoral position in Application of Machine Learning algorithms to data of the Gaia mission”**.

## Application procedure

Applications must be sent via e-mail<sup>1</sup> to: [inafoasbo@postecert.it](mailto:inafoasbo@postecert.it). In the email subject the applicant should make explicit reference to: **“Post doctoral position in Application of Machine Learning algorithms to data of the Gaia mission”**.

Applications must include the following four Annexes **dated and signed**:

- the Application Form (Annex A);
- the self-certification Form (Annex B);
- the platform choice for interviews (Annex C);
- The applicant also needs to attach:
  - 1) a copy of a valid identification document;
  - 2) a curriculum vitae (**dated and signed**);
  - 3) a list of scientific publications;
  - 4) any other work or publication the applicant deems useful;
  - 5) a list of all submitted documents.

Incomplete or unsigned applications will be rejected.

<sup>1</sup>Note for Italian citizens only: applications should be e-mailed via PEC.