

## **Stéphane Erard (LIRA)**

### *20 Years of the Paris Astronomical Data Centre: Supporting the Virtual Observatory and Beyond*

The Paris Astronomical Data Centre (PADC) celebrates its 20th anniversary this year, marking two decades of commitment to astronomical data services and interoperability. PADC primarily supports local ANO5 services, focusing on specialized domains such as Atomic and Molecular Physics, Exoplanets, Interstellar Medium simulations, Ephemerides, and Solar System data. Many of these services operate at the interface of the Virtual Observatory (VO), expanding its scope into new scientific territories.

Beyond its core mission, PADC has played a proactive role in the development of the VO, with significant contributions to Open Science and FAIR principles. The centre has developed a global portal for querying ObsCore services worldwide, as well as a VO service monitoring system. Additionally, PADC contributors chair IVOA Working Groups or contribute to VO standards and implementation strategies.

PADC's expertise extends beyond astronomy, fostering interdisciplinary interoperability. Its members actively contribute to other international consortia such as IPDA (space mission data), IHDEA (heliophysics), OGC (Earth observation), and VAMDC (atomic and molecular physics), working towards cross-domain standardization. PADC has also deepened its engagement with EOSC (European Open Science Cloud) and national infrastructures such as [recherche.data.gouv](https://recherche.data.gouv.fr/), contributing to maintain Astronomy at the forefront of the Open Science movement.