

## FOUNDATION FOR RESEARCH AND TECHNOLOGY – HELLAS (FORTH) INSTITUTE OF COMPUTER SCIENCE

N. Plastira 100, Vassilika Vouton, GR-700 13 Heraklion, Crete, Greece <a href="https://www.forth.gr/">https://www.forth.gr/</a>

## JOB OPPORTUNITY

<u>**Project:**</u> TITAN – Frugal Artificial Intelligence and Application in Astrophysics. An ERA Chair HORIZON EUROPE grant funded by the EU.

**Position:** Two Post-doctoral positions **Start date:** Any date before the end of 2023 **Duration:** 2 years with possibility of extension

**Salary:** 45.000-50.000 €/year (gross income depending on family status)



<u>Description</u> The two positions are to work in cosmology and/or machine learning in the context of cosmology. Subjects of interest are optical and radio weak-lensing, High order statistics, EoR, inverse problems, deep learning, components separation, data on manifold, high dimensional and big data processing, etc.

The HORIZON project "TITAN – Frugal Artificial Intelligence and Application in Astrophysics", funded under the HORIZON-WIDERA-2022-TALENTS-01 program aims to develop novel frameworks based on advanced signal processing and (deep) machine learning frameworks for distinguishing different cosmological models from such maps.

The post-doctoral researcher will be located at the premises of FORTH with a strong collaboration with the CosmoStat Laboratory at CEA Saclay. The post-doctoral researchers will be advised by <u>Jean-Luc Starck</u> (FORTH/CEA) and <u>Panagiotis Tsakalides</u> (FORTH).

## Required qualifications:

- Ph.D. in Astrophysics, Computer Science, or related field
- Experience in machine learning and/or cosmology
- · Publications in related fields
- Working experience in related European and/or national R&D projects

## Desired qualifications:

· Decision-making and representation of the team at national and international levels

**FORTH** is the largest and most prestigious research center in Greece with modern facilities and highly qualified personnel. It comprises ten research institutes located throughout Greece. The Institute of Computer Science (FORTH-ICS) and the Institute of Astrophysics (FORTH-IA) are located in the main

campus, around 5km south of Heraklion on the island of Crete, Greece. Members from both FORTH-ICS and FORTH-IA are involved in the TITAN project. The group is committed to diversity and equality, encourages applications from women and underrepresented minorities, and supports a flexible and family-friendly work environment. Benefits for this position include retirement, health care, and parental leave. **CEA Paris-Saclay** is located 20 km south of Paris, France, near various universities and other



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research centers. The CosmoStat group is a diverse and multi-disciplinary team of researchers working on various topics in cosmology and data science.

Interested candidates are invited to communicate with J.-L. Starck <u>jstarck@cea.fr</u> and P. Tsakalides <u>tsakalid@ics.forth.gr</u>, sending a <u>cover letter</u> and their <u>CV</u> by **May 31, 2023**. CVs can be sent before the deadline as positions could be filled before if an ideal candidate is found.