

# Open positions for the Marie Skłodowska-Curie fellows at the Center for Astrophysics and Cosmology

We solicit applications to [Marie Skłodowska-Curie Individual Fellowships 2020](#) (MSCA-IF-2020) from promising candidates interested in pursuing their research activities in astroparticle physics, high-energy and multi-messenger astrophysics at the [Center for Astrophysics and Cosmology](#) (CAC) at the [University of Nova Gorica, Slovenia](#). The CAC group consists of eight permanent staff, three postdocs, and seven PhD students, and its main research areas include:

- **Origin of the ultra-high energy cosmic rays**
- **Instrumentation for Cherenkov astronomy**
- **Dark matter searches**
- **Astrophysics of transients**

Candidates interested in the research in one of the following topics are invited to contact the corresponding CAC researchers before June 30, 2020 in order to jointly prepare an Individual Fellowship application:

**Topic 1: High-energy astrophysics** at the [Pierre Auger Observatory](#), focused on multi-messenger analysis and interpretation of the new data, featuring improved mass constraints of individual ultra-high energy cosmic ray events (professor [Serguei Vorobiov](#));

**Topic 2: Instrumentation** for the [Cherenkov Telescope Array](#), focused on the construction and operation of atmospheric monitoring lidar systems for the Cherenkov Telescope Array North observatory at La Palma (professor [Samo Stanič](#));

**Topic 3: Dark matter searches** with the [Cherenkov Telescope Array](#): search for signatures of dark matter particles (including WIMPs and ALPs dark matter models) in gamma-ray data using innovative data analysis methods, including machine learning (professor [Gabrijela Zaharijas](#));

**Topic 4: Astrophysics of transients**, in particular gamma ray bursts, gravitational wave events, tidal disruption events, cosmology with supernovae (professor [Andreja Gomboc](#)).

## Scientific requirements:

Interested candidates should hold a PhD in the field related to the topic of the application, good publication track record and demonstrated scientific independence. The deadline for the submission of Individual Fellowship applications is Wednesday, September 9, 2020 – 17:00.