

Postdoctoral Fellowship in the High Energy Physics, Cosmology & Astrophysics Theory (HEPCAT) group at the University of Cape Town (UCT)

The High Energy Physics, Cosmology & Astrophysics Theory (HEPCAT) group in the Department of Mathematics and Applied Mathematics at the University of Cape Town (UCT) is offering a postdoctoral fellowship starting in 2020.

The position is funded by the VC2030 Future Leaders award to Prof Amanda Weltman; awarded by the Vice Chancellor of the University of Cape Town. The focus of the grant is on theoretical aspects of gravity research, in particular using gravitational waves to constrain theories of gravity. We will consider candidates with a range of interests related to gravity and high energy theory.

Applicants should work in one of the following fields: High Energy Theory, Cosmology and Theoretical Astrophysics. Applicants must have a track record of accomplishment and independence in their research. Preference will be given to applicants whose research activities overlap with members of the HEPCAT (<http://hepcat.group/>) group: Shajid Haque, Julien Larena, Jeff Murugan, Jonathan Shock and Amanda Weltman. There are additional opportunities to perform joint work within other group research areas, including amplitudes in astrophysics, machine learning and theoretical cosmology more broadly.

The appointment must comply with the University's approved policies, procedures and practices for the postdoctoral sector, and is subject to the rules and approval of the University of Cape Town.

The appointment is for two years at the outset, with a possible extension of one year. A PhD in Physics, Applied Mathematics or Astronomy is required. Postdoctoral experience is a bonus, however the candidate needs to be within 5 years from the date of PhD at the start of the position and may not have held a full-time permanent academic or professional post. The value of the fellowship is R230 000, and it is tax-free. Equipment and travel funding are available.

Interested candidates should send a CV, a research proposal (2-3 pages), and arrange for three letters of recommendation to be sent to melissa.largier@uct.ac.za by February 16th, 2020. Please use the following format in the subject line : YOURNAME, VC2030 postdoc 2020. Applications will be considered from that date until the position is filled. The position is available immediately. Any queries can be sent to Melissa at melissa.largier@uct.ac.za. Eligible and complete applications will be considered by members of the HEPCAT group.

The University of Cape Town reserves the right to:

- *disqualify ineligible, incomplete and/or inappropriate applications*
- *change the conditions of award or to make no awards at all*