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RESEARCH ASSOCIATE FOR THE PROJECT “CLUSTER OF EXCELLENCE QUANTUM UNIVERSE” IN THE FIELD OF ASTROPHYSICS AND ARTIFICIAL INTELLIGENCE. § 28 SUBSECTION 3 HMBHG

Institution: Faculty of Mathematics, Informatics and Natural Sciences, Department of Physics, Hamburg Observatory, Cluster of Excellence “Quantum Universe”
Salary level: EGR 13 TV-L
Start date: 01.01.2025, the initial fixed term is three years (This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act [Wissenschaftszeitvertragsgesetz, WissZeitVG]).
Application deadline: 15.11.2024
Scope of work: part-time
Weekly hours: 66,67 % of standard work hours per week

The Cluster of Excellence “Quantum Universe” performs research to understand mass and gravity at the interface between quantum physics and cosmology. The research team includes leading scientists from mathematics, particle physics, astrophysics, and cosmology at the University of Hamburg and DESY.

Your responsibilities

Duties include academic services in the project named above. Research associates may also pursue independent research and further academic qualifications.

The PhD will be conducted under the supervision of Prof. Luisa Lucie-Smith at the Hamburg Observatory. The research will involve developing explainable AI models for cosmology, aiming to improve our ability to model the large-scale structure of the Universe in light of upcoming galaxy surveys.

Doctoral research associates will become members of the Quantum Universe Research School (QURS), which provides academic and soft skills training, as well as career planning support. In addition, they will receive individual budgets to facilitate the attendance of summer schools and conferences, and to support other educational measures. Additional travel money for project-specific duties will be provided by the hosting research groups. Doctoral research associates may participate in teaching at the University and in the organization of the Cluster via an early career council.

Your profile

A university degree in a relevant field.

- Excellent English communication skills are required.
- Excellent candidates will have prior knowledge of astrophysics and/or cosmology, ideally in the form of an undergraduate thesis project.
- Experience in computer programming, especially in Python, is desired.
- Excellent candidates will have interest and/or prior experience in modern machine learning and deep learning approaches.

Successful candidates are expected to pursue a PhD in Physics at the University of Hamburg. The regular duration of a PhD at the Department of Physics is three years.

We offer

- Reliable remuneration based on wage agreements
- Continuing education opportunities
- University pensions
- Attractive location
- Flexible working hours
- Work-life balance opportunities
- Health management, EGYM Wellpass
- Educational leave
- 30 days of vacation per annum

Universität Hamburg—University of Excellence is one of the strongest research educational institutions in Germany. Our work in research, teaching, educational and knowledge exchange activities is fostering the next generation of responsible global citizens ready to tackle the global challenges facing us. Our guiding principle “Innovating and Cooperating for a Sustainable Future” drives collaboration with academic and nonacademic partner institutions in the Hamburg Metropolitan Region and around the world. We would like to invite you to be part of our community to work with us in creating sustainable and digital change for a dynamic and pluralist society.

The Free and Hanseatic City of Hamburg promotes equal opportunity. As women are currently under-represented in this job category at University of Hamburg according to the evaluation , HambGleIG), we encourage women to apply for this position. Equally qualified and suitable female applicants will receive preference.

Severely disabled and disabled applicants with the same status will receive preference over equally qualified non-disabled applicants.

Instructions for applying

Contact

Prof. Dr. Luisa Lucie-Smith
 luisals@mpa-garching.mpg.de

Reference number

326

Location

Gojenbergsweg 112
 21029 Hamburg
[Zu Google Maps](#)

Application deadline

15.11.2024

Use only the online application form to submit your application with the following documents:

- cover letter
- CV
- copies of degree certificate(s)

If you experience technical problems, send an email to bewerbungen@uni-hamburg.de.

More information on [data protection](#) in selection procedures.

PDF DOWNLOAD

APPLY



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