Two Postdoc positions in Computational Mathematics at the Euler Institute, Faculty of Informatics at USI

Università della Svizzera italiana (USI) is a young and lively university, a hub of opportunity open to the world where students are offered a quality interdisciplinary education in which they can be fully engaged and take center stage, and where our researchers can count on having the space to freely pursue their initiative.

Established in 1996, USI is in constant evolution, always taking on new challenges while remaining true to its three guiding principles: quality, openness and responsibility.

The Euler Institute invites applications for two Postdoc positions (60 - 100%, 2 years) in Computational Mathematics.

The Project
The positions are funded by the SNSF Starting Grant, "Multiresolution Methods for Unstructured Data": Unstructured data, such as social network information, text, audio, photos, videos, scientific measurements, and simulation data, is increasingly prevalent in our daily lives. Efficient processing and analysis of these data types are essential for our society. In the project "Multiresolution Methods for Unstructured Data," we are developing novel, fully discrete, data-centric multiresolution approaches tailored to unstructured data. The focus is on the analysis and efficient algorithms of such approaches, as well as their implementation.

The Postdoc Positions
The Postdoc candidates will work under the scientific supervision of Prof. Michael Multerer (http://usi.to/3ps). The successful candidates will be offered the possibility to work in a dynamic research team and in a multidisciplinary and international scientific environment.

The positions do not include teaching duties, though opportunities for teaching are available if desired.

The Postdoc candidates are expected to publish in high-ranking journals and to present their results at scientific conferences.

Candidates’ Profile
Ideal candidates should satisfy the following requirements:

- PhD in (applied) Mathematics, with expertise in one or more of the following areas: Approximation Theory, Harmonic Analysis, Numerical Linear Algebra, or Uncertainty Quantification.
- Programming knowledge with C/C++ or Python.
- Fluency in English; fluency in Italian or German is a plus.
- Strong communication and interpersonal skills.
- Experience or interest in supervising PhD students.
General Terms
- Workplace is USI Università della Svizzera italiana, located in Lugano, Switzerland.
- The starting date is as soon as possible, and applications will be evaluated on a rolling basis.
- The positions are intended for 2 years (extensible).
- The salary levels correspond to those set by the Swiss National Science Foundation for postdoctoral researchers.

The Application
Applications may be submitted upon acceptance of the Applicant Personal Data Processing Notice found at the following LINK. In the online form, you will be asked to declare that you have read and understood our privacy policy.

Applications should contain:
- A letter in which the applicants describe their research interests and the motivation to apply.
- A complete CV.
- Copies of relevant diplomas and certificates.
- A complete list of publications.
- Contact information of 2 scientific references.

Applications must be submitted ONLINE by filling out the form accessible through the following link: CANDIDATES. You will also need to upload the documents listed above.

Please send requests for further information to Michael Multerer (michael.multerer@usi.ch).

As an institution that values diversity, USI particularly encourages applications from women and from all individuals from underrepresented groups.

Lugano, 3 July 2024