



UNIVERSITEIT VAN AMSTERDAM

Computational PhD Position in Mechanics of Active Soft Matter

A four-year Postdoc position with starting date of January 2020 or as soon as possible thereafter is available at the University of Amsterdam to work in the Soft Matter Modelling and Simulation group of Dr. Sara Jabbari-Farouji at the [Institute of Theoretical Physics](#) of the [University of Amsterdam](#).

We welcome applications from excellent and highly motivated candidates interested in non-equilibrium statistical physics and mechanical properties of active materials. In this research project, you will have the opportunity to work on modelling and simulations of collective dynamics and mechanical properties of a range of active matter systems at the interface between Statistical Physics, Soft Matter and Biology. You will employ particle-based simulations to gain deepened insights into the role of activity on the collective dynamics and mechanical properties of active magnetic suspensions and/or self-propelled polymeric systems.

To be eligible for this position, you are required to have a master's degree in theoretical or computational physics or a closely related field with a strong background in statistical physics. You must also be able to demonstrate computational experience including use of high-level programming languages (such as C/C++, and Python or other scripting methods). Previous experience with cross-disciplinary projects involving hydrodynamics, polymer physics and biophysics is desirable. Further details and application procedure can be found at the following link: <https://iop.uva.nl/shared/uva/en/vacancies/2019/11/19-788-phd-position-in-mechanics-of-soft-active-matter.html?origin=2diawi1xTyuMn3MyWKcHow>.

For more information and informal inquiries, please contact directly Dr. Sara Jabbari-Farouji.

Dr. Sara Jabbari Farouji
Institute of Theoretical Physics
Tel: +31-(0) 20 525 7312
e-mail: s.jabbarifarouji@uva.nl
homepage: <https://staff.fnwi.uva.nl/s.jabbarifarouji/index.html>