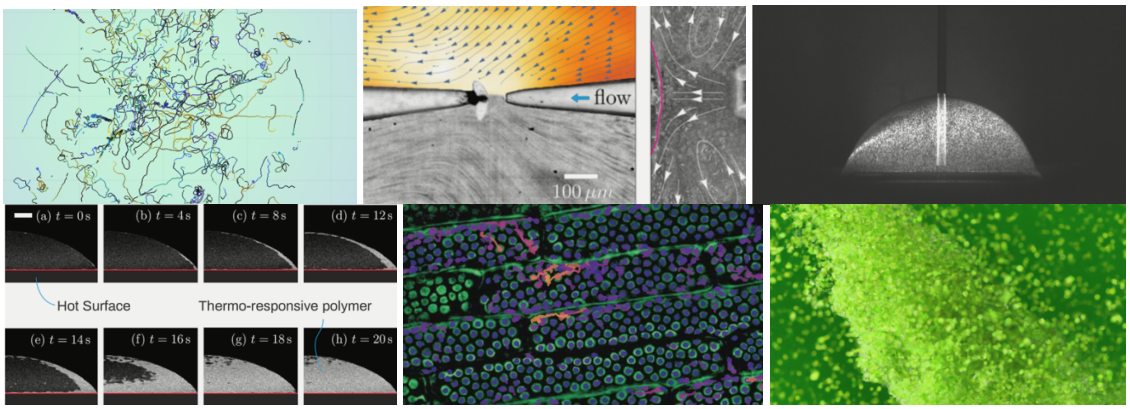
PhD Position in Physics of Biological and Complex Systems

Institute of Physics, University of Amsterdam, The Netherlands



Are you interested in physics of biological systems, statistical physics, fluid mechanics, and polymeric materials? Do you want to develop new experimental techniques and collaborate with biologists and theoretical physicists to explore the physics of active materials?

We are looking for a highly motivated and creative PhD student to join our team effort to explore the physics of biological systems far-from-equilibrium. In this PhD project, you will work on various aspects of hydrodynamics, optical diagnosis, and statistical physics to study the fundamental aspects of phase transition and glassy dynamics in complex biological and polymeric materials. You will design and build non-standard experimental tools based on methods like Optical Tweezing, Optical Coherence Tomography, Confocal Microscopy, Holographic Microscopy, etc., to study rheology, fluid mechanics and phase transition in biological and polymeric materials. You will also closely collaborate with the other biophysicists in the team and the biologists and theoretical physicists from other groups and universities.

Candidates with interests in interdisciplinary sciences with previous experience in an experimental lab (imaging, fluid dynamics, biophysics, instrumentation, rheology, optics, microscopy, or similar), programming (Python, Matlab, ...), and data analysis in physics or biophysics are highly encouraged to apply.

For more information about the Groups, please visit FluidLab, Soft Matter Group, and Computational Soft Matter Group.

Interested? Please contact Dr. Maziyar Jalaal (m.jalaal@uva.nl) with your CV attached.