

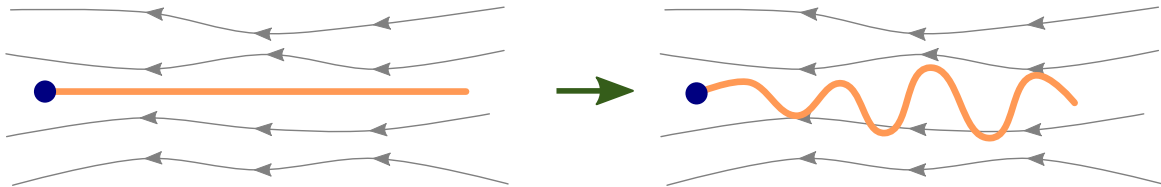
PhD Student position & scholarship in Warsaw, Poland

National Centre of Science Grant *Sonata*

Dynamic deformations of elastic filaments in viscous fluids

University of Warsaw, Faculty of Physics

soft matter physics – elastohydrodynamics – biological fluid mechanics



Funding period: 36 months, with a possible extension

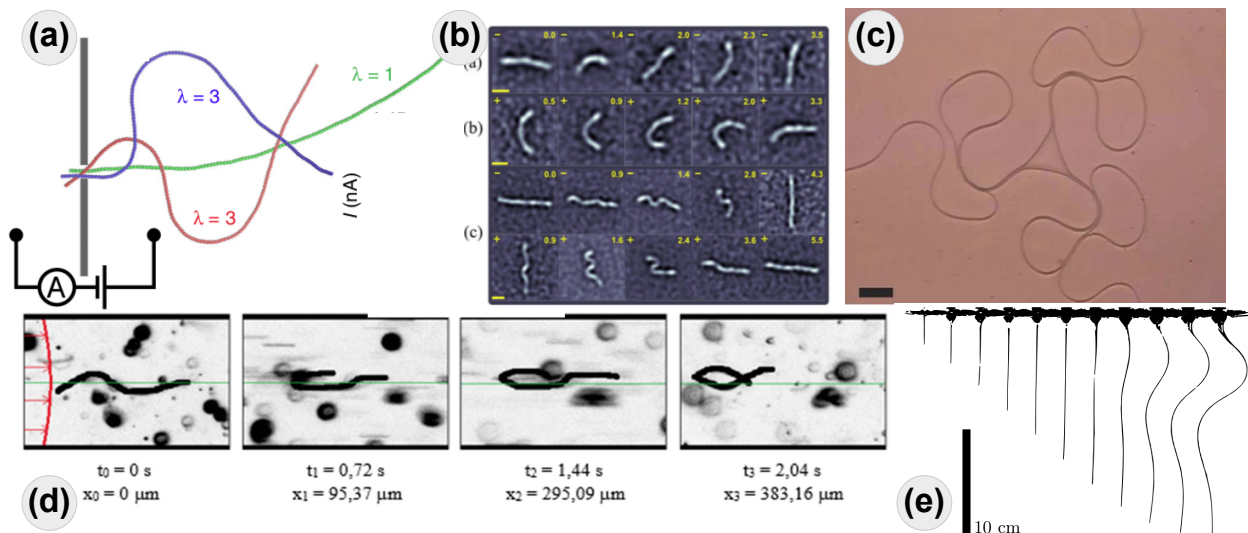
Monthly stipend: 3500 PLN (tax-free)

Starting date: 1 October 2019, application deadline: 1 September 2019

- Research on deformations of elastic filaments in microfluidic channels and in macroscopic model systems with highly viscous fluids.
- Applications for microfluidic and biological systems.
- Theoretical and numerical project, with possible experimental work.
- New laboratory and research group.
- Research stays: collaboration with E. Lauga's group (University of Cambridge).

PI: Dr Maciej Lisicki

Maciej.Lisicki@fuw.edu.pl
www.fuw.edu.pl/~mklis



- (a) *fd*-viruses (0.88 μm long) buckle when passing through nanopores (Mc Mullen et al, PRL 2018).
(b) Actin filaments in an extensional flow (Kantsler & Goldstein, PRL 2012); scale bar 3 μm . (c) Filaments extruded by freezing oil droplets in the presence of a surfactant (Denkov et al, Nature 2015); scale bar 50 μm . (d) Hydrogel nanofibres in flow (Pawłowska, JPCS 2018); image height 77 μm . (e) Deformations of a piano string in corn syrup (Gosselin et al, PRE 2014); scale bar 10 cm.

PhD Scholarship offer within the NCN SONATA 14 Project

Dynamic deformations of elastic filaments in viscous fluids

Principal Investigator: Dr Maciej Lisicki

Institution: Faculty of Physics, University of Warsaw, Warsaw, Poland

No. of positions: 1

Scholarship duration: 36 months, with a possible extension

Starting date: 1 October 2019

The scholarship is awarded according to the National Centre of Science Regulations on Awarding Scholarships in NCN-Funded Research Projects, as detailed in the Annex to resolution no 96/2016 of the Council of the NCN of 27th October 2016..

Description of the position:

Research work will be conducted at the Faculty of Physics, University of Warsaw, within a National Centre of Science grant *Dynamic deformations of elastic filaments in viscous fluids*.

The scholarship holder will develop theoretical and numerical tools to describe and understand the motion of elastic fibres in viscous flows. Experiments are planned within the project, in which the scholarship holder can take part. The project involves international exchange and research visits, e.g. in the group of prof. Eric Lauga at the University of Cambridge.

Requirements:

Basic knowledge of hydrodynamics and viscous flows and elasticity theory or soft matter physics, confirmed by completed degrees and/or publications in this area.

A complete application should contain:

- cover letter with personal data processing consent (attached to this form). The form should be signed and scanned.
- CV containing information on past scientific activity and achievements
- transcript of records from the last completed course (e.g. a Master's degree)
- list of publications and conference presentations, if applicable
- copies of awarded degree certificates

Application deadline: 1 September 2019

Please send your complete application by email to: Maciej.Lisicki@fuw.edu.pl

Possible interview dates will be offered to selected candidates on an individual basis.

In the case of resignation of a selected candidate, the position will be offered subsequent candidates from the selection ranking list.

INFORMATION ON THE PROCESSING OF PERSONAL DATA

INFORMATION CLAUSE

Pursuant to Article 13 of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation), University of Warsaw hereby informs:

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3. Your personal data will be processed for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw;
4. The provided data will be processed pursuant to Article 22¹ § 1 of the Act of 26 June 1974 Labor Code (uniformed text: Dz.U. of 2018, item 917) and your consent for processing of personal data;
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CONSENT CLAUSE

I hereby consent to have my personal data processed by the University of Warsaw with its registered office at ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw.

I have been informed of my rights and duties. I understand that provision of my personal data is voluntary.

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(place and date)

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(signature of the applicant)