

Suzanne Lafon

PhD in Physics

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Montpellier

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DIPLOMA

- PhD in Physics, Paris-Saclay
 University
- Master of fundamental physics (ICFP) "Soft matter and physics for biology", ENS Ulm, Paris
- ENS diploma
- 4 years study in Physics (major) and 72 additional ECTS in other domains (chemistry, biology, sociology, languages)
- Bachelor in fundamental physics
 ENS Ulm, Paris
- Classe Préparatoire (CPGE) PCSI-PC*
 Lycée Joffre, Montpellier

AWARDS

 PhD thesis award from the Paris-Saclay Graduate School of Physics

LANGUAGES

French | Mother tongue English | Fluent Spanish | Intermediate



Computing

Python, Matlab, LAMMPS

Experimental

- Scattering & Reflectivity techniques (X-rays and neutrons)
- Microfluidics (on glass & PDMS)
- Surface chemistry
- Rheology
- STRAFI NMR

WORK EXPERIENCE
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Mar 2027 Postdoctorate
Oct 2025 LIPHY, CNRS • 0

LIPHY, CNRS · Grenoble, France 🗣

Quasi-elastic study of ionic liquids confined in a sheared polymer matrix

with M. Plazanet (CNRS)

Sep 2025 Postdoctorate

Oct 2024 LIPHY, CNRS · Grenoble, France 9

Chiral molecules separation by chiral cellulose derivatives - a MD study

with B. Coasne (CNRS)

Sep 2024 Postdoctorate

Juin 2024 Paris-Saclay University · Orsay, France ♥

Ion dynamics: development of a STRAFI-NMR set-up

with M. Zeghal (Paris-Saclay University), P. Judeinstein (CNRS) and P. Wzietek

(Paris-Saclay University).

Nov 2023 PhD thesis

2017

Oct 2020 Paris-Saclay University · Orsay, France 9

Founded by ENS Paris.

Liquid/solid interfacial rheology

supervised by F. Restagno (CNRS) and A. Chennevière (CEA Saclay) in

collaboration with L. Joly and S. Merabia (ILM, Lyon, France).

Nov 2023 **Teaching assistant**

Oct 2020 Paris-Saclay University · Orsay, France 9

Computer science (Python, L1), metrology (IUT S4) et material science (L3).

2023 Non-permanents representative

2021 Solid State Physics Laboratory · Orsay, France ♥

2021 Organiser of the "Rencontre des Jeunes Physicien ne s"

2020 FRENCH PHYSICAL SOCIETY (SFP) · Paris, France 9

Sep 2020 Research internships

Sep 2016 Multiples institutions · France & Allemagne ♥

Spontaneous emulsification and spontaneous organisation at the oil/water interface, Gulliver Lab, ESPCI, Paris, France. Supervised by Teresa Lopez-Leon.

5 months.

Photoresponsive liquid/liquid phase separation, CRPP, Pessac, France. Supervised by Nicolas Martin & Jean-Christophe Barret. 5 months.

Topological defects in cellulose shells, Gulliver lab, ESPCI, Paris. Supervised by Teresa Lopez-Leon. 4 months.

Effect of advection on pulse propagation in excitable media, MPIDS, Göttingen, Germany. Supervised by Jean-Daniel Julien & Karen Alim. 5 months. **Short-times dynamics of capillary rise**, PMMH, ESPCI, Paris. Supervised by

Joachim Delannoy, Etienne Reyssat & David Quéré. 1 month.

Head of the Sports Associaion

Ecole Normale Superieure de Paris · Paris, France 9

닢	FORMATIONS
2024	Machine learning with Pyth
	MOOC of INRIA
2023	Image processing (Python)
	F. Boulogne
	(5 : 6 ! !!!)

Graphical interfaces (Python)

on

G. Exil (CEA Saclay)

Methodology for an open and reproducible research

• MOOC by C. Pouzat,

A. Legrand and K. Hinsen (INRIA)

2021 History of chemistry

J.-B. Baudin at ENS Ulm, Paris



Postdoc Research Advisors

Benoit Coasne

benoit.coasne@univ-grenoble-alpes.fr

Marie Plazanet

marie.plazanet@univ-grenoble-alpes.fr

Patrick Judeinstein

patrick.judeinstein@cnrs.fr

PhD Supervisors

Frédéric Restagno

frederic.restagno@universite-paris-saclay.fr

Alexis Chennevière

PUBLICATIONS

2025

NMR study of water diffusion in highly concentrated salt

IN PREPARATION 🖹

S. Lafon, P. Wzietek, M. Zeghal, P. Judeinstein

2025 A new method to quantify liquid/solid friction using a rheometer

IN PREPARATION

S. Lafon, D. Dudzinski, F. Restagno, A. Chennevièr

Near-Surface Concentration Profile of Sheared Semidilute Polymer

Solutions

Langmuir, 41(3) & arxiv

S. Lafon, T. Outerelo Corvo, M. Grzelka, A. Hélary, P. Gutfreund, L. Léger, A.

Chennevière, F. Restagno

Probing the colloidal behavior of a cell wall

polysaccharides-degrading enzyme in a highly constrained model

system

J. Coll. Int. Sci., **694**(137685)

H. Voisin, E. Bonnin, M. Marquis, C. Alvarado, **S. Lafon**, T. Lopez-Leon, F. Jamme, I.

Capron

2023 Giant slip length at a supercooled liquid-solid interface

PRE, **107**(2) & ARXIV 🖹

S. Lafon, A. Chennevière, F. Restagno, S. Merabia, L. Joly

2023 Flow driven control of pulse width in excitable media

PRE, **107**(5) & ARXIV **■**

A. Misselwitz, **S. Lafon**, J.-D. Julien, K. Alim

2023 Interactions between proteins and cellulose in a liquid crystalline

media: Design of a droplet based experimental platform

INT. J. BIO. MACRMOL., 245(125488)

H. Voisin, E. Bonnin, M. Marquis, C. Alvarado, S. Lafon, T. Lopez-Leon, F. Jamme, I.

Capron

2022 Reversible photocontrol of DNA coacervation

METHODS IN ENZYMOLOGY, **646** (329-351) **■**

S. Lafon, N. Martin

2019 The dual role of viscosity in capillary rise

Soft Matter, **15**(13) 🖹

J. Delannoy, S. Lafon, Y. Koga, E. Reyssat, D. Quéré

CONFERENCES

Jun 2025Journées de la Diffusion NeutroniqueTalkAnnecy, France ♥Jul 2023International Congress on Rheology

Talk Athènes, Greece ♥

Oct 2022 **Journées de la Diffusion Neutronique**

Talk Biarritz, France ♥

Jul 2022 Soft Matter Summer School

Poster Cargèse, France **◊**

Jul 2022 New frontiers in liquid matter - CECAM workshop

Poster Paris, France ♥

Sep 2021 ECIS

Poster Athens, Greece 9

Nov 2019 Symposium "Synthetic and Systems Biology"

Poster Bordeaux, France **?**