

Suzanne Lafon

Contact

PhD Student

suzanne.lafon@universite-paris-saclay.fr

Orcid: <https://orcid.org/0000-0002-3441-2041>

Webpage: <https://equipes2.lps.u-psud.fr/suzanne-lafon/>

Office O106

Laboratoire de Physique des Solides (LPS)

Orsay, France

Education

2020-2023 **PhD thesis**, LPS, Paris-Saclay University, Orsay, France

“Liquid/solid interfacial rheology: from numerical simulations to experiments”

Funded by Ecole Normale Supérieure d’Ulm

In collaboration with ILM, Lyon, France

Advisors: Pr. Frédéric Restagno & Dr. Alexis Chennevière

2016-2017 **BSc in Physics**, Ecole Normale Supérieure d’Ulm, Paris, France

2013-2016 **Prep class**, Lycée Joffre, Montpellier, France

BSc equivalent program in Physics/Chemistry/Mathematics. High-level competitive exams at the end.

Research experience

2020-2023 **PhD thesis**, LPS, Paris-Saclay University, Orsay, France

Advisors: Pr. Frédéric Restagno & Dr. Alexis Chennevière

2016-2020 **Internships**

“Spontaneous emulsification and organisation at water/oil interfaces”, Gulliver lab, ESPCI, Paris (5 months)

Advisor: Dr. Teresa Lopez-Leon

“Photoresponsive liquid-liquid phase separation”, CRPP Pessac (5 months)

Advisors: Dr. Nicolas Martin & Pr. Jean-Christophe Barret

“Topological defects in cellulose shells”, Gulliver lab, ESPCI, Paris (4 months)

Advisor: Dr. Teresa Lopez-Leon

“Effect of advection on pulse propagation in excitable media”, MPIDS, Göttingen, Germany (5 months)

Advisors: Dr. Jean-Daniel Julien & Pr. Karen Alim

“Early dynamics of capillary rise”, PMMH lab, ESPCI, Paris (1 month)

Advisors: Dr. Joachim Delannoy & Pr. Etienne Reyssat & Pr. David Quéré

Publications

2023 **“Simultaneous depletion and adsorption in polymer solutions near a solid wall”**

S. Lafon, T. Outerelo-Corvo, M. Grzelka, A. Hélyary, P. Gutfreund, L. Léger, F. Restagno, A. Chennevière, *submitted* (2023)

"Giant slip length at a supercooled liquid-solid interface"

S. Lafon, A. Chennevière, F. Restagno, S. Merabia, L. Joly, *PRE* **107**(2) (2023)

"Flow driven control of pulse width in excitable media"

A. Misselwitz, S. Lafon, J.-D. Julien, K. Alim, *PRE* **107**(5) (2023)

"Confinement effect on poly(ionic liquid) interfacial structure"

T. Outerelo-Corvo, S. Lafon, A. Hemmerle, E. Drockenmuller, F. Restagno, A. Chennevière, *in preparation* (2023)

"Interactions between proteins and cellulose in a liquid crystalline media..."

H. Voisin, E. Bonnin, M. Marquis, C. Alvarado, S. Lafon, T. Lopez-Leon, F. Jamme, I. Capron, *Int. J. Bio. Macromol.* **245** (2023)

2020 "Reversible photocontrol of DNA coacervation"

S. Lafon, N. Martin, *Methods in Enzymology* 646:329-351 (2020)

2019 "The dual role of viscosity in capillary rise"

J. Delannoy, S. Lafon, Y. Koga, E. Reyssat, D. Quéré, *Soft Matter* **15**(13) (2019)

Conferences

International conferences

- Jul. 2023 **International Congress of rheology**, *Contributed talk*, Athens, Greece
- Oct. 2022 **Journées de la Diffusion Neutronique**, *Contributed talk*, Biarritz, France
- Jul. 2022 **Cargese Summer School**, *Poster*, Cargèse, France
- Jul. 2022 **"New frontiers in liquid matter" CECAM congress**, *Poster*, Paris, France
- Sep. 2021 **ECIS 2021**, *Poster*, Athens, Greece
- Nov. 2019 **Symposium on Synthetic and Systems Biology**, *Poster*, Bordeaux, France

National conferences

- Jul. 2023 **26th General Congress of Société Française de Physique**, *Contributed talk*, Paris, France
- Aug. 2021 **Journées de la Matière Condensée 2021**, *Poster*, remote

Other experiences

Teaching

- 2020 Computer science (tutorials, BSc)
- 2023 Measurement science (practical class, BSc)
Materials physics (tutorials, BSc)
- 2012 Private tuitions in maths, physics,
- 2019 chemistry and French

Miscellaneous

- 2021 **Student representatives**, LPS, Orsay
- 2023 Representative of the non-permanents at the lab council
- 2020 **Organizer**, Rencontre des Jeunes
- 2021 **Physicien·ne·s**, Paris
- 2020 Intervention in the E=M6 scientific TV show
- 2016 **Chair of the Sports Office**, Ecole Normale
- 2017 Supérieure, Paris

Supervision

- 2020 Supervision of 2 BSc interns (3 months)
- 2023