

# Caroline Kopecz-Muller

Promotion ENS 2015

+33 6 47 96 13 20  
✉ caroline.kopecz-muller@espci.fr

## Education

- 2017-2020 **Master ICFP, Soft matter and biophysics**, *Ecole Normale Supérieure (ENS)*, Paris.  
2015–2016 **Bachelor in physics**, *ENS*, Paris.  
2015 **Admission to the ENS**, rue d'Ulm, Paris.  
2013–2015 **Classes préparatoires in mathematics and physics**, *Lycée Stanislas*, Paris.  
Chemical and physical option  
2013 **Combined Baccalauréat and Esame di stato**, *Lycée Pierre de Fermat*, Toulouse (France), both with high honors.  
French and Italian high school degree

## Scientific experience

- 2020-2023 **Internship and PhD in soft matter**, *Gulliver, ESPCI & LOMA, U. Bordeaux*, Paris & Bordeaux.  
Numerical simulations of elastohydrodynamic interactions; Diffusive and hydrodynamic motion near soft porous media  
Advisor Joshua McGraw and Thomas Salez  
2019 **Internship in soft matter**, *L2C, Université de Montpellier*.  
Study of interfacial tension between miscible fluids by spinning drop tensiometry  
Advisor Domenico Truzzolillo  
2018 **Internship in biophysics**, *EMBL Australia, University of the New South Wales*, Sydney.  
Study of oligomerization and activity of molecular chaperone proteins by single-molecule spectroscopy  
Advisor Yann Gambin and Emma Sieracki  
2016 **Internship in musical acoustics**, *IRCAM*, Paris.  
Study of frequency response on folk guitars  
Advisor Adrien Mamou-Mani  
2016 Participation in the International Physicists' Tournament, ENS team was ranked second at national selection : [france.iptnet.info](http://france.iptnet.info)

## Skills

### Languages

|         |                 |         |        |
|---------|-----------------|---------|--------|
| French  | Native language |         |        |
| English | Fluent          | Italian | Fluent |

### Softwares

|             |                 |                                 |                |
|-------------|-----------------|---------------------------------|----------------|
| Pack Office | Good knowledge  | L <sup>A</sup> T <sub>E</sub> X | Good knowledge |
| Matlab      | Basic knowledge | Python                          | Good knowledge |

### Technical skills

|                                       |                                  |
|---------------------------------------|----------------------------------|
| Numerical simulations of EHD problems | Numerical analysis of images     |
| Atomic Force Microscopy               | Surface Force Apparatus          |
| Spinning drop tensiometry             | Fluorescence confocal microscopy |

## Extracurricular activities and hobbies

- 2016 **Member of the cultural student association of ENS**, *Organization of cultural events at ENS*.  
2015–2017 **Musicology lectures with Fériel Kaddour**, *Ecole Normale Supérieure*.  
Musical analysis of classical and romantic pieces  
2004–2013 **Education in piano and musical theory**, *Conservatoire of Toulouse*.  
Graduation in musical theory in 2011 with high honors

### Hobbies

|       |   |       |                             |
|-------|---|-------|-----------------------------|
| Music | Regular practice of piano                 | Dance | Ballet and west coast swing |
| Art   | Museums, theater, concert, ballet, operas |       |                             |