

# Léa Sta

PhD student in applied mathematics

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*Early Stage Researcher at the University of Leeds, studying  
mathematical immunology*

## Education

- 2019–2021 **Marie Sklodowska Curie Early stage Researcher (PhD student) in mathematical immunology**, *University of Leeds*, Leeds, United Kingdom, Studying and modelling signals determining naive T cell maintenance.
- 2016–2018 **Master Degree in applied Mathematics : Analysis, Modelling, Simulation**, *Université de Versailles*, Palaiseau, France, 6th out of 27 students, *Summa Cum Laude* distinction. Study of partial differential equations, finite elements, computation for science, parallel programming, scientific visualization...
- 2015-2018 **Master degree in Engineering : Simulation and mathematics for engineering**, *Top French engineering school ENSTA ParisTech*, Palaiseau, France.  
Analysis, statistics, probabilities, optimization, operational research, numerical methods,...
- 2012–2015 **Preparatory classes with a mathematics major**, *Lycée du Parc*, Lyon (69), France.  
Preparatory classes are two or three years of intensive studies in mathematics and physics to prepare to competitive exams to be accepted in top French engineering schools.

## Languages and computing skills

Programming C, C++, Python, Matlab, R  
computing L<sup>A</sup>T<sub>E</sub>X, Maple, Pack office, Paraview, Photoshop CS and Première Pro  
Languages French (first language), English (fluent), Italian (fluent)

## Work experience and internships

- April-Sept. **Master thesis internship**, *Lip 6, Sorbonne Universités*, Paris, France.  
2018 Research trainee in topological data analysis for scientific visualization. Creating and implementing a method to compress data preserving Morse-Smale complex. Programming in C++, plug-in added on Paraview
- May-August **Research internship**, *The University of Edinburgh, school of mathematics*, Edinburgh,  
2017 Scotland.  
Comparison of two algorithms using Bayesian inference to estimate parameters of dynamical systems from the observation of data, programming in Python.

## Club experience with ENSTA Paristech

- 2016-2017 **Technimage (video club)**, *Vice-president*.  
Shooting, assembling and editing videos for other student clubs, team management
- 2016-2017 **TAbou? (LGBT+ and feminist club)**, *Responsible for communication*.  
Prevention, sensitization, debate organization, Facebook page animation
- 2016-2017 **TwisT'Again (Rock'n'roll dance club)**, *President*.  
Teaching dance to students

## other interests

Sports Swimming in a club and at ENSTA Paristech for 9 year  
Leisure Social dancing : Lindy Hop, Rock'n'roll, Blues dancing, Charleston, Tango  
Writing, drawing and watercolor painting

## References

References upon request