

## Education

- 2021 - 2022 **École Normale Supérieure Paris-Saclay**, 2<sup>nd</sup> year of Master's degree in applied mathematics and machine learning **Mathématiques/Vision/Apprentissage (MVA)**, Gif-sur-Yvette.
- 2020 - 2021 **École Normale Supérieure-ICFP**, 2<sup>nd</sup> year of Master's degree in physics **Soft matter and biological physics ENS-ICFP**, Paris.
- 2018 - 2019 **École Normale Supérieure Paris-Saclay**, Licence **Fundamental physics**, Cachan.
- 2015 - 2018 **Clemenceau High School**, Scientific CPGE PCSI / PSI\* (preparatory classes), Nantes.

## Research

- 2022 - 2024 **PhD thesis (in progress)**, TIMC-Grenoble & Gulliver laboratory (ESPCI Paris).  
Generative models for protein sequences under the supervision of Ivan Junier & Olivier Rivoire.
- 2022 **Research Internship**, Centre Borelli, ENS Paris-Saclay.  
Human motion analysis via graph signal dictionary learning supervised by Laurent Oudre (5 months).
- 2021 **Research Internship**, Collège de France (CIRB), Paris.  
Inference of generative models for bacterial genome supervised by Olivier Rivoire (4 months).
- 2019 **Research Internship**, Plasma Physics Laboratory (LPP) at Polytechnique, Gif-Sur-Yvette.  
Study of density and potential fluctuations in a magnetised toric plasma supervised by Pierre Morel.
- 2019 **Research Internship**, Research Laboratory in Hydrodynamics, Energy and Atmospheric Environment (LHEEA), Centrale Nantes.  
Study of the performances of the small swell water tank beach supervised by Félicien Bonnefoy.

## Publications & Conferences

- Marion Chauveau**, Antoine Mazarguil, Laurent Oudre. *Graph dictionary learning for the study of human motion*. In *Proceedings of the 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, 2024, pp. 1–5.
- Sylvain W. Combettes, Paul Boniol, Antoine Mazarguil, Danping Wang, Diego Vaquero-Ramos, **Marion Chauveau**, Laurent Oudre, Nicolas Vayatis, Pierre-Paul Vidal, Alexandra Roren, *et al.* *Arm-CODA : A Data Set of Upper-limb Human Movement During Routine Examination*. *Image Processing On Line*, vol. 14, pp. 1–13, 2024.
- 2024 **Journées de la Physique Statistique**, Paris.  
Short talk "Generative models of protein sequences".
- 2023 **5th course on Multi-scale Integration in Biological Systems**, Institut Curie, Paris.  
Short talk "Generative models of protein sequences".
- 2023 **Biological sequence variation from statistical modeling to structure, function, and evolutionary dynamics**, Institut d'Études Scientifiques, Cargèse.  
Poster "Overcoming undersampling in generative models for biological sequences".

## Teaching

- 2023 - 2024 **Oral examination in Physics and Chemistry (CPGE "Khôlle")**, Lycée Descartes, Tours.
- 2023 **Practical works in physics**, Sorbonne Université, campus Jussieu, Paris V.  
Supervision of L1 students for practical work in physical mechanics during 1 semester.
- 2023 **Numerical physics projects**, Sorbonne Université, campus Jussieu, Paris.  
Supervision of L1 students for numerical physics projects (in python) during 1 semester.
- 2019 **Teaching Internship**, Lycée de Cachan.  
2 hours per week in a class to help a teacher during practical work in physics.

## Other

Advanced English

Cambridge Certificate in Advanced English (level C1)