

Clément Moreau

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Education

- 2017–2020 **PhD in Applied Mathematics**, *Inria Sophia-Antipolis*, supervised by Laetitia Giraldi, Pierre Lissy and Jean-Baptiste Pomet.
Controllability in finite and infinite dimension of life-inspired nonlinear systems
- 2016–2017 **Invited research year**, *University of York (Royaume-Uni)*, supervised by Hermes Gadêlha.
Efficient semi-analytical numerical methods for solving the elastohydrodynamics of filaments
- 2015–2016 **Master's degree in "Mathematics and Applications"**, *Université Pierre et Marie Curie*, with honours.
- 2013–2015 **Master 1 (4th year of university) in "Pure Mathematics"**, *Ecole Normale Supérieure de Cachan and Université Paris Diderot*, with honours.
- 2013–2014 **Bachelor's degree in Mathematics**, *Ecole Normale Supérieure de Cachan and Université Paris Diderot*, with honours.
- 2013 **National competitive examination for admission to the French "Grandes Ecoles" - Entered the Ecole Normale Supérieure de Cachan.**
- 2011–2013 **Preparatory classes : two-year undergraduate intensive course in mathematics and physics (MPSI/MP*)**, *Lycée Clemenceau*, Nantes.
- 2011 **Baccalauréat with major in maths**, *Lycée Clemenceau*, Nantes, first class honours.

Research Publications

- 2018 *A practical and efficient asymptotic coarse-graining model for the elastohydrodynamics of slender-rods and filaments* (with Hermes Gadêlha et Laetitia Giraldi), in preparation.
- 2017 *Addendum to "Local Controllability of the Two-Link Magneto-Elastic Micro-Swimmer"* (with Laetitia Giraldi, Pierre Lissy et Jean-Baptiste Pomet), *IEEE Transactions on Automatic Control*, to be published.

Teaching

- 2018 **Tutor**, *Institut Supérieur d'Economie et de Management (ISEM), Nice*.
« Mathématiques 2 » (calculus to first-year undergraduate students)

Talks

- Jan 2018 **12th International Young Researchers Workshop on Geometry, Mechanics and Control**, *Università di Padova, Italy*.
Controllability of a magneto-elastic micro-swimmer
- Nov 2017 **PGMO Days 2017**, *EDF Lab Paris Saclay, France*.
Controllability of a magneto-elastic micro-swimmer

Research Internships

- 2016 **Master's internship**, *Université Paris-Dauphine and Inria Sophia-Antipolis*, supervised by Laetitia Giraldi, Pierre Lissy and Jean-Baptiste Pomet.
Micro-swimming and partial controllability
- 2015 **Stage de master 1**, *Ecole Nationale Supérieure des Mines de Paris*, Centre Automatique et Systèmes (CAS), supervised by François Chaplais.
Real-time sub-optimal control of hybrid vehicles
- 2014 **Stage de licence**, *Ecole Normale Supérieure de Cachan*, Centre des Mathématiques et de Leurs Applications (CMLA), supervised by Enric Meinhardt-Llopis and Jean-Michel Morel.
Prokudin-Gorskii's photos reconstruction

Spoken Languages

- French Native speaker
English Fluent (C2)
German B2