

Jean Cauvin-Vila

Ph.D student

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Education

- 2020 - ... **Ph.D in applied mathematics**, *CERMICS, Ecole Nationale des Ponts et Chaussées and INRIA team Matherials*, Paris.
Modelling, analysis and control of some cross-diffusion systems in moving domains, under the supervision of Virginie Ehrlacher.
- 2019–2020 **Master of science in applied mathematics**, *Sorbonne Université/UPMC*, Paris.
Mathematics of modelling, with a major in analysis of PDEs: analysis, PDEs, optimization and control, modelling and numerical analysis.
- Spring 2018 **Academic exchange**, *Ecole Polytechnique Fédérale de Zürich (ETH)*.
Student in the mathematics master: advanced functional analysis, brownian motion and stochastic calculus, introduction to machine learning.
- 2016–2020 **Master of Science in engineering**, *Ecole Nationale des Ponts et Chaussées*, Paris.
Major in applied mathematics and computer science.
- 2014–2016 **Classe Préparatoire MPSI-MP**, *Lycée Victor Grignard*, Cherbourg.
Intensive training in mathematics, physics and computer science.

Experience

- Spring 2020 **Master's thesis**, *Laboratoire Jean Kuntzmann*, Grenoble, 4 months.
Model reduction for shape optimization, under the supervision of Edouard Oudet and Charles Dapogny.
- 2018 – 2019 **Research internship**, *Commissariat aux énergies atomiques (CEA)*, Ile-de-France, 6 months.
Applied analysis and scientific computing for electronic structure calculations in the ABINIT code (Density Functional Theory), under the supervision of Marc Torrent and Antoine Levitt.

Languages

- French Mother tongue
English Read, written, spoken