Adrien Lesage

Engineer / Ph.D candidate in mathematics

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Formation

2017 - 2020 **Ph.D in Applied Mathematics**, *CERMICS/Laboratoire Navier, École Nationale des Ponts et Chaussées and Inria.*
Homogenization and geometrical optimization of heterogeneous shells

2016 – 2017 **Master of Science in Applied Mathematics (ANEDP)**, *Université Paris VI.*
Partial Differential Equations, Numerical Analysis and Stochastic Differential Equations

2013 – 2017 **Master of Science in Engineering**, *École Nationale des Ponts et Chaussées.*
Specialization in Applied Mathematics and Computer Science

2011 – 2013 **Preparatory classes**, *Lycée Faidherbe, Lille.*
Two-year intensive program in mathematics and physics preparing for the national competitive exam for engineering schools

Professional Experience

2017 – 2019 **Teaching**, *École Nationale des Ponts et Chaussées.*
- "Basics of mathematical analysis" for master students in mechanics of material;
- "Introduction in Optimization" for first year engineering students;

2017 **Internship, Research**, *Laboratoire Navier, École Nationale des Ponts et Chaussées*, 4 months.
Numerical methods for heterogeneous plates

2016 **Internship, Engineering**, *EDF R&D*, 5 months.
Modelization of the interactions between swell and metallic structures and design of a system to exploit wave power

2015 **Internship, Research**, *Institut de Biologie Physico-Chimique, CNRS*, 5 months.
Molecular simulation and free energy calculation

2014 **Internship, Research**, *Budapest University of Technology and Economics*, 3 months.
Topology analysis of transportation networks

Languages

French mother tongue
English fluent (TOEIC: 930/990, talks in international conferences)
German moderate

Computer skills

OS Ubuntu, Mac OS, Windows
Language Python, C++, Fortran, Matlab, Bash, LaTeX
Scientific Finite Elements Method, Numerical methods in applied probability