

**Jérémy Adric FIROZALY**

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Date of birth: 4<sup>th</sup> October 1990

Nationality: French

## PhD student in applied mathematics at Pontois ParisTech and ENS ULM

### Academic career

- 2014-: PhD student at CERMICS (Pontois ParisTech) and DMA (ENS ULM).  
Subject: Homogenization for traffic flow.  
Research interests: Traffic flow modeling, viscosity theory Hamilton-Jacobi equations.  
Supervisors: - Cyril IMBERT (cyril.imbert@ens.fr)  
- Régis MONNEAU.
- 2014-2015: Student at Pontois ParisTech Business School.  
Certificate in “Cycle International Management”.  
Content: ten weekends intensive courses taught by international experts in management, finance, accountings, entrepreneurship, marketing and strategy.
- 2013-2014: Student at ENSTA ParisTech (3<sup>rd</sup> year). Specialisation in “Modeling - Systems Simulation”.  
MSc in “Numerical Analysis and PDEs”- Pierre and Marie Curie University.  
Result: “Mention très bien”.
- 2012-2013: MSc in Applied Mathematics – Imperial College of London. Pass with distinction.
- 2010-2012: Student in applied mathematics at ENSTA ParisTech, (Institute of engineering education and research, “*Grande Ecole*”), founding member of Pontois ParisTech.
- 2008-2010: Preparatory classes for engineering schools: two-year undergraduate intensive course in mathematics and physics. Preparation for nationwide competitive exams at Lycée Condorcet.  
Academic rank: 1<sup>st</sup> out of 40.

### Research experience

- April-August 2014: Research assistant at CERMICS: “Viscosity solutions theory for Hamilton-Jacobi equations and traffic flow”.  
Supervisors: Cyril IMBERT and Régis MONNEAU.
- February-August 2013: Research assistant at Imperial College: “On the  $b$ -family PDEs equations”.  
Supervisor: Pr Darryl HOLM.
- May-August 2012: Research assistant at ENSTA ParisTech: “Bilaplacian with sign changes”.  
Supervisors: Anne-Sophie BONNET BENDHIA-Lucas CHESNEL-Sonia FLISS

### Teaching experience

2015-: Teacher in Paris Dauphine University (undergraduate level).  
Subject: Real analysis, free and constrained optimization.

2011-2012: Mathematics and Physics examiner in preparatory classes at Lycée Condorcet.

### **Languages and computer skills**

French: Mother tongue.

English: Fluent (TOEFL IBT – score: 101/120, TOEIC – score: 920/990).

Spanish: Intermediate.

Computer: Matlab and C, C++ languages.

### **Volunteer and leisure time activities**

- Student associations: football, table tennis and karting.
- Secretary-General of the Paris-East PhD students' organisation.
- Event Planning: poker tournaments between engineering schools, scientific and business conferences.
- Free tutoring in Mathematics and Physics.