

Aymeric Baradat

PhD student, *École Polytechnique*

125 rue Castagnary

75015 Paris

France

☎ 06 99 61 99 38

✉ aymeric.baradat@polytechnique.edu

🌐 <http://www.math.ens.fr/~baradat/>

Education

- 2016– **PhD student in Mathematics**, *École Polytechnique*, Palaiseau, France.
About variational methods in fluid dynamics, supervised by Yann Brenier and Daniel Han-Kwan.
- 2012–2016 **Student at the ENS Ulm**, Paris, France.
 - 2015 **Master 2 in Probability**, *Université Paris 6*, Paris, France.
Master thesis entitled "Problèmes de minimisation d'entropie avec contraintes", supervised by Christian Léonard.
 - 2015 **Master 2 in Analysis of PDEs and Calculus of Variations**, *Université Paris 6*, Paris, France.
Master thesis entitled "Méthodes variationnelles appliquées à la résolution et à l'étude des solutions d'équations de la mécanique des fluides", supervised by Yann Brenier.
 - 2014 **Master 1 in Mathematics**, *ENS Ulm/Université Paris 6*, Paris, France.
 - 2013 **Licence 3 in Mathematics**, *ENS Ulm/Université Paris 6*, Paris, France.
 - 2012 **Admitted to the ENS Ulm**, Paris, France.
- 2010–2012 **Classes préparatoires MPSI-MP***, *Lycée Louis le Grand*, Paris, France.

Talks

- June 2018 **Team Seminar**, *Grupo de Física Matemática da Universidade de Lisboa*, Lisboa, Portugal.
Talk entitled "The pressure field in the Brödinger problem".
- June 2018 **Workshop "Mathematical Advances in Fluid Mechanics"**, *École Polytechnique*, Palaiseau, France.
Talk entitled "Penrose condition around rough velocity profiles".
- June 2018 **PhD students Seminar**, *Université de Lorraine*, Metz, France.
Talk entitled "Modèle de Brenier et équations d'Euler cinétiques".
- March 2018 **Team Workshop**, *École Polytechnique*, Palaiseau, France.
On the work of De Lellis and Székelyhidi about the weak solutions to the Euler equations.
- May 2017 **PhD students Seminar**, *École Polytechnique*, Palaiseau, France.
Talk entitled "Principe de moindre action dans un fluide incompressible".

March 2017 **PhD students Workshop**, *Université Paris 6*, Paris, France.
About the work of Di Perna-Lions and Crippa-Ambrosio on the continuity equation.

Teaching activity

2016– **Teaching assistant**, *École Normale Supérieure*, Paris, France.
In charge of the course "Mathematics for Economists" for licence 3 students.

2012–2014 **Oral examiner**, *Lycée Dorian*, Paris.
For second year students in "classes préparatoires".

Languages

French **Mother tongue**

English **Fluent**

Italian **Intermediate**

Arabic **Beginner**

Publications

Aymeric Baradat. Continuous dependence of the pressure field with respect to endpoints for ideal incompressible fluids. *Submitted paper*, *arXiv:1802.05963*, 2018.

Aymeric Baradat. On the existence of a scalar pressure field in the Breninger problem. *arXiv:1803.06299*, 2018.