

Paul Catala

Ph.D. in Applied Mathematics

☎ +33 (0) 6 30 97 82 83

✉ paul.catala@ens.fr

January 30, 1993

Skills

Mathematics Convex optimization, Sparsity, Super-Resolution.
Programming Matlab (excellent), Python (good).
Languages French (native), English (fluent), Spanish (basics).

Education

- 2016 – **Ecole Normale Supérieure**, *Ph.D. student*, Paris, France.
Semidefinite hierarchies for imaging science.
Supervised by G. Peyré and V. Duval.
- 2015–2016 **Ecole Normale Supérieure**, *Master of Science*, Cachan, France..
Master MVA: Mathematics for vision and machine learning
- 2014–2015 **Université Paris VI**, *Undergraduate Degree*, Paris, France.
Mathematics
- 2013–2016 **Télécom ParisTech**, *Engineer Degree*, Paris, France.
Major in Applied Mathematics and Image Processing
- 2010–2013 **Preparatory school**, *Lycée Henri IV*, Paris, France.
Mathematics, Physics, Computer Science
- 2010 **International Baccalaureate**, *Lycée Henri IV*, Paris, France.

Professional Experience

- 2016 – **Ecole Normale Supérieure**, *Ph.D. student*, Paris, France.
Advisors: Gabriel Peyré, Vincent Duval
- 2014 **Blue Spirit (Animation Studio)**, *Intern*, Paris, France.
Web development (Javascript) for production management tools

Teaching

- 2016–2019 **Université Paris-Dauphine**, *Teaching Assistant*, Paris, France.
Linear Algebra (*1st year*)
Differential Calculus and Optimization (*3rd year*)
Probability (*2nd year*)

Publications

- P. Catala, V. Duval and G. Peyré, Group-Lasso Wasserstein Sans Grille, in *GRETSI*, 2019.
- P. Catala, V. Duval and G. Peyré, A Low-Rank Approach to Off-the-Grid Sparse Super-Resolution, *SIAM J. Imaging Science*, 2019.