Paul Catala

Ph.D. in Applied Mathematics

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January 30, 1993

Skills

Mathematics	Convex optimization, Semidefinite 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
Advisor: Jan Roudaut

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.