

De Bortoli Valentin

Curriculum Vitae

PERSONAL DETAILS

Birth October 13, 1993
Address 52 Rue Gustave Courbet, Bagneux
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EDUCATION

Msc, Mathématiques Vision et Apprentissage

2016-2017

ENS Paris Saclay, Cachan

Obtained with highest honors. Advanced techniques and foundations in image processing (a contrario methods, inverse problems, stochastic modeling) and machine learning (neural networks, convex optimization, probabilistic graphical models).

Agrégation externe

2015-2016

ENS Paris Saclay, Cachan

19th/300. Civil service competitive examination for the public education system. Group theory, field theory, linear and bilinear algebra, projective geometry, functional and complex analysis, topology, differential calculus.

First year graduate study

2014-2015

ENS Paris Saclay, Cachan

Obtained with highest honors. Partial differential equations, complex analysis, differential geometry, machine learning.

Bsc, Mathématiques Fondamentales

2013-2014

ENS Paris Saclay, Cachan

Obtained with highest honors. Fundamental statistics, probability and measure theory, advanced algebra, differential calculus and functional analysis.

Higher School Preparatory Classes

2011-2013

Lycée aux Lazaristes, Lyon

Intensive two-years university foundation course preparing for the competitive entrance examinations to the Ecole Normale Supérieure. Undergraduate mathematics, physics, chemistry and computer science.

Baccalauréat

2011

Lycée Saint Ambroise, Chambéry

French equivalent of the A levels. Speciality in mathematics.

WORK EXPERIENCE

Phd student

2017-present

Centre de Mathématiques et de Leurs Applications (CMLA), Cachan

Advisors: Agnès Desolneux, Bruno Galerne, Arthur Leclaire. Image processing and probability thesis: stochastic modelling and spatial redundancy.

Teaching Assistant**2017-present***ENS Paris Saclay*

Differential calculus Teaching Assistant (undergraduate level), reference: Frédéric Pascal.

Optimization Teaching Assistant (graduate level), reference: Alain Trouvé. Hilbertian analysis

Teaching Assistant (agrégation), reference: Frédéric Pascal.

Intern**2017***CMLA*

Five months internship under the supervision of Agnès Desolneux, Bruno Galerne and Arthur Leclaire. Study of a contrario models to describe patch similarity in textured images (image processing).

Higher School Preparatory Classes examiner**2016-2017***Lycée Janson de Sailly, lycée Lakanal*

Mathematics examiner for first year students in higher school preparatory classes examiner.

References: Carine Apparicio (Janson de Sailly), Patrick Rauch (Lakanal).

Intern**2015***San Diego State University*

Five months internship under the supervision of Jérôme Gilles. Mathematical study and implementation of a texture segmentation algorithm based on empirical wavelets (image processing).

Intern**2014***CMLA*

Four months internship under the supervision of Agnès Desolneux and Lara Raad. Implementation and study of the FRAME model (image processing).

SKILLS

<i>Languages</i>	French (mothertongue)
	English (advanced) (627/677 TOEFL exam)
	Italian (basic)
<i>Software</i>	MATLAB, L ^A T _E X, PYTHON, EMACS
<i>O.S</i>	Linux, Windows

REFERENCES

Available upon request