

Bastien Laville | Curriculum Vitae

Les algorithmes, 4000 route des Lucioles – 06130 Biot
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Ph.D Thesis

Title: *Off-the-grid dynamic super-resolution for fluorescence microscopy.*

Supervisors: DR1 Laure Blanc-Féraud (CNRS I3S) & Pr. Gilles Aubert (CRNS J.A. Dieudonné).

Research project: Morpheme (Inria/CNRS).

Education

Master degree: applied mathematics

Research M2 "Maths en action"

Image mathematics (vision and imaging, geometric measure theory, etc.), high performance computing.

Lyon 1, ENS Lyon, ECL

2019 – Present

École centrale de Lyon

Major in mathematics

Lyon

2017 – Present

Sorbonne-Nouvelle

Bachelor of contemporary literature

Paris 3

2017 – 2018

Université Grenoble-Alpes

*Classes préparatoires PCSI-PC**

Champollion school

2015 – 2017

An intensive two-year undergraduate course specialized in mathematics, physics, chemistry and computer science. Research project on reaction-diffusion problems, computation by finite-element methods and spectral methods.

Work experience

Research internship

Morpheme (Inria/CNRS)

Quantitative confidence estimator via optimal transport for biomedical super-resolution imaging. Supervised by Mrs Laure Blanc-Féraud.

Sophia Antipolis

April – Sept 2020

Research internship

Mathematics departement

Efficient finite-element based solvers in C++ for edge/vertex singularities in Stokes flow. Supervised by Mr Matthias Heil.

Manchester

May - Jul 2019

Research project

CNRS Ampère, Lyon

Second year project in applied mathematics (H_∞ synthesis and graph theory) supervised by Mr Giacomo Casadei et Mr Gérard Scorletti.

2018 – 2019

Computer skills

Proficient: L^AT_EX, MATLAB, python + pyTorch, Photoshop

Advanced: C++ & CUDA, SIMULINK, GNU/Linux (Debian, Arch)

Intermediate: SQL, JavaScript, OpenOffice.

Langues

French: Mother tongue

English: Fluent

Experiences in writing scientific articles, TOEFL C1

German: Good command

Working knowledge

Russian: Basic

Deep-seated basis