



Laurent Thomas

PhD student in image-processing
M.Sc. In Biotechnology

Interested by instrumentation, programming
And high-throughput data-processing

📍 Heidelberg, Germany

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CURRENT POSITION

2017 – 2020 PHD STUDENT - ACQUIFER (A DIVISION OF DITABIS) – HEIDELBERG, GERMANY

Supervised by Jochen GEHRIG

Image-processing for the acquisition and analysis of high-content screening data on the zebrafish

Marie Curie scholarship/Image In Life PhD program

EDUCATION

2013 - 2017 ENGINEER STUDENT - BIOTECHNOLOGY SCHOOL OF STRASBOURG (ESBS), FRANCE

and Biophysics master degree as double degree – Strasbourg university

2011–2013 PREPARATORY CLASS FOR NATIONAL COMPETITIVE EXAMS FOR ENGINEERING SCHOOLS ENTRANCE

intensive lectures in maths, physics and chemistry

CPGE (Classe Préparatoire aux Grandes Ecoles) Rabelais, Saint-Brieuc, France

EXPERIENCE

March - August 2017 MASTER THESIS - SUPER-RESOLUTION MICROSCOPY – ABBELIGHT (START-UP), PARIS

supervised by Nicolas BOURG

- Improving the control of a microscope setup for long-term imaging (Hardware interfacing, GUI programming)

- Investigating the possibility of a microfluidic perfusion system with mixing (COMSOL simulation)

August 2016 IMAGE PROCESSING INTERNSHIP – MAX PLANCK INSTITUTE FOR CELL BIOLOGY AND GENETICS (MPI-CBG), DRESDEN

supervised by Benoit LOMBARDOT

- Developing a KNIME workflow for an existing cell-tracking pipeline (TGMM), allowing the easy use of the script and the visualisation of the results in the same interface

SKILLS

•LANGUAGES

French : native speaker

English : fluent

German : simple conversation (B2 level)

•TECHNICAL SKILLS

Python programming for data and image processing (OpenCV...)

Image processing (ImageJ/Fiji, KNIME, Cell Profiler)

Optical microscopy (widefield, confocal, single-molecule/super-resolution)

Electronic (Arduino, operational amplifier...)

Microfluidic and microfabrication

Mathematical modelling (synthetic biology, physics)

HOBBIES

- **Sports** : climbing, volleyball

- **Music** : guitar, bass

- **Photography**

- **DIY**