

Jean-Philippe Bauchet

Ph.D. candidate in computer science



- ✈ *French citizenship, 26 years old*
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Objectives

Develop skills in computer vision, in order to apply them to large-scale city reconstruction.

Formations

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| Since 10/2016 | Ph.D student , Inria Sophia-Antipolis, Titane team.
LOD2 city reconstruction from satellite imagery.
CIFRE student, sponsored by Luxcarta Technology.
Advisor: Dr. Florent Lafarge. |
| 09/2011 – 09/2014 | Master's Degree in Engineering .
Grenoble Institute of Technology – Ensimag. With distinction.
Major: Mathematical modeling, vision, graphics and simulation. |
| 09/2009 – 07/2011 | Preparation in mathematics, physics and computer science for the competitive entrance examination to French Engineering Schools.
Lycée Louis Thuillier, Amiens, France. |

Professional experiences

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| 04/2016 – 08/2016 | Development engineer Thales Services, Sophia-Antipolis, France
Reference: Dr. Thierry Poglio (thierry.poglio@thalesgroup.com)

I contributed to the development of an interface managing communications between a satellite and a ground crew. I developed QGIS plugins for the preprocessing of the data acquired by the spatial system. |
| 08/2015 – 03/2016 | Computer vision engineer Hiphen, Avignon, France
Reference: Dr. Alexis Comar (acomar@hiphen-plant.com)

I contributed to the design and the development, from scratch, of a workflow for the analysis of multispectral images acquired by unmanned aerial vehicles, in a context of smart farming and phenotyping activities. I conceived an algorithm for the detection of cercospora leaf spots, a sugar beet disease, in RGB images. |

02/2014 – 04/2015	<p>Intern, Research assistant National Institute of Informatics, Tokyo, Japan Reference: Pr. Imari Sato (imarik@nii.ac.jp)</p> <p>I initiated a research work on material transfer, a computer vision technique that consists in replacing the texture of a target object seen in a photography by another texture from a given source object.</p>
06/2013 – 09/2013	<p>Intern Aubay, Boulogne-Billancourt (France) Reference: Mr. Xavier Prince (xprince@aubay.com)</p> <p>I contributed to the design and the development from scratch of a Web framework for the creation of responsive websites.</p>

Skills

Languages	Fluent in French and English
Main programming languages	C, C++, Java
Main libraries and frameworks	Qt, OpenCV, CGAL

Publications

Bauchet, Jean-Philippe, and Florent Lafarge. "KIPPI: KInetic Polygonal Partitioning of Images." *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2018.

Miscellaneous

Personal interests: Running, photography, cinema. Driving license holder.