Luc GIROD, PhD

Researcher in Photogrammetry,
Remote Sensing and Computer Vision

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Nationality : French

Education

2014 – 2018	**PhD**, *University of Oslo*. "Improved measurements of cryospheric processes using advanced photogrammetry". Thesis submitted in October 2017. Part of the ICEMASS project. Topics included : Improvement of ASTER DEMs ; Low-cost aerial survey of glacier; Reprocessing of historical photogrammetric surveys; Multi-annual surveys of sorted circle for dynamics assessment.
2010–2013	**Master of Engineering**, National School of Geographical Sciences (ENSG), Champs-sur-Marne. Specializing year in Photogrammetry, Positioning and Measurement of Deformations
2008–2010	**Preparation course for the competitive examination to enter engineering schools**, *Maths/Physics*, Lycée Claude Gelée, Épinal.
2005–2008	**High school graduation**, *with honours (majors : maths ; sciences ; English ; music)*, Lycée Claude Gelée, Épinal.

Professional experience

Vocational

March. 2018 –	**Research Fellow**, *University of Oslo*. Part of the ICEMASS project. topics are continuation of the PhD work.
Jan. 2013 –	**Developer**, *MicMac project*. Ongoing development of the "MicMac" open-source photogrammetric chain, focus on the satellite and integrated workflow components. Community manager for the project.
Oct.–Dec. 2013	**Research Engineer**, *Applied Geomatics Laboratory of the French Geographical Institute (IGN/LGA)*, Champs-sur-Marne. Involved in IGN's software "MicMac" development team. Work in colaboration with IPGP on earthquake displacement analysis.
May–Sep. 2013	**Research Intern**, *Applied Geomatics Laboratory of the French Geographical Institute (IGN/LGA)*, Champs-sur-Marne. Master thesis : "Radiometric Correction and Equalization of Images for 3D Reconstruction", supervised by Marc Pierrot-Deseilligny. Prototyping, development and implementation of algorithms in C++.
Jun.–Aug. 2012	**Research Intern**, *University of Oslo, Norway*. Internship in photogrammetry "The Use of Structure from Motion in Geosciences" supervised by Prof. Dr. Andreas Kääb. Use of IGN's MicMac ; modelling of sorted patterns from Svalbard ; fieldwork in the Svartissen sub-glacial laboratory ; work with Dr. Olivier Galland at the Physics of Geological Processes Center on modelling the magmatic push effect on surface geometry from lab experiment.

Student projects

Oct. 2012	**Fieldworker**, Amiens.
	Involved in the e-Cathedral project.
	Use of image and laser-based techniques to digitize the cathedral Notre-Dame d'Amiens.
Feb.–May 2012	**Developer**, Champs-sur-Marne.
	Development of an Android app for geodesic transformations.
Nov.–Dec. 2011	**Research Intern**, *ENPC/Laboratoire Imagine*, Champs-sur-Marne.
	Analysis of Bundler algorithms' implementation.
Jun.–Jul. 2011	**Fieldworker**, Forcalquier.
	Laser point clouds ; architectural photogrammetry ; topometry ; stereo preparation ; geoïd calculus...

Miscellaneous

2012–2017	**WebMaster**, *Concours International de Piano d'Épinal*.
	Website design and database management.
2008–2011	**Camp leader**, *Telligo*, UK and France.
	Linguistic summer-camps and ski camps
2008–2011	**Private tutor**.
	Maths ; Physics ; Computer science

Computer skills

C/C++	openGL, openCV, MicMac Library	SfM	MicMac, Bundler, PMVS/CMVS
Java	Android SDK	Laser Scaning	Cyclone
Maths	Matlab, Octave	Points Cloud	MeshLab, Cloud Compare
Web	HTML, PHO, SQL...	Media creation	Adobe CS, Cubase, Blender
Database	Design, Management	DTP	LaTeX, OpenOffice.org

Languages

French	Native speaker	Norwegian	Basic
English	Fluent, TOEIC 985		

Other skills and hobbies

2014–2015	**Orchestra Conductor**, *Studentorchesteret Biørneblæs*, University of Oslo.
2008	**Driving License**.
2008	**BAFA**.
	Camp leader diploma
1997–	**Classically trained saxophone player**.
	Studied 12 years at the conservatory, played 5 years in the "Orchestre d'Harmonie d'Épinal"
Jun.–Aug. 2006	**Exchange student in Australia**, *YFU*, Melbourne University High School.
	Student in year 11
Travels	Visited 30+ countries over 5 continents