

MATHIAS GALLARDO

PhD candidate in Computer Vision

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Looking for opportunities in Computer Vision/Deep Learning Research from February 2018

PERSONAL DETAILS

Born on the 27th of July 1990, in Arles, France; French citizen; single

EDUCATION

PhD candidate in Computer Vision at Institut Pascal (Université Clermont Auvergne) Sept 2014 – Aug 2017

Supervisors: Pr. Adrien Bartoli and Toby Collins

Topic: *Deformable 3D Reconstruction from Multiple Visual Cues*

Master Degree at Grenoble INP – Phelma 2010 - 2013

Physics, Applied Physics, Electronics & Materials Science, in Grenoble, France

Topic: *Signal and Image Processing, Communication System and Multimedia*

Double Degree with the IAE of Grenoble Feb 2013 – Jun 2013

University Schools of Management, in Grenoble, France

Topic: *Business Administration*

WORK EXPERIENCE

Morpho – Safran group (Osny, France), 6 months internship Jul 2013 – Dec 2013

Topic: *Estimation and Correction of Product-specific Optic Blur for Fingerprint Modules*

Defined the requirements and the industrial constraints/ State-of-the-art/ Modeled the acquisition system/ Proposed and implemented a workflow for the blur estimation and the blur correction/ Performed experimental analysis of the workflow with simulated images/ Validated the approach with simulated and real images. Project done in Python.

Soitec (Bernin, France), 4 months internship May 2012 – Aug 2012

Topic: *Automatization of Visual Inspection for Silicon Wafers*

Defined the requirements and the industrial constraints/ Studied the different possible methods of detection/ Proposed a full pipeline of detection: contours detection with manual calibration/ Implemented and validated the pipeline on real images and directly on the automation. Project done in C/C++ with OpenCV 2.4.

PUBLICATIONS: PEER-REVIEWED INTERNATIONAL CONFERENCES

Dense Non-Rigid Structure-from-Motion and Shading with Unknown Albedos

M. Gallardo, T. Collins and A. Bartoli

ICCV'17 - *Proceedings of the International Conference on Computer Vision*, Venice, Italia, October 2017

Can we Jointly Register and Reconstruct Creased Surfaces by Shape-from-Template Accurately?

M. Gallardo, T. Collins and A. Bartoli

ECCV'16 - *Proceedings of the European Conference on Computer Vision*, Amsterdam, the Netherlands, October 2016

Using Shading and a 3D Template to Reconstruct Complex Surface Deformations

M. Gallardo, T. Collins and A. Bartoli

BMVC'16 - *Proceedings of the British Machine Vision Conference*, York, UK, September 2016

Shape-from-Template in Flatland

M. Gallardo, D. Pizarro, A. Bartoli and T. Collins

CVPR'15 - *Proceedings of the IEEE International Conference on Computer Vision and Pattern Recognition*, Boston, Massachusetts, June 2015

COMPUTER SKILLS

Programming: Matlab, C/C++, Python
Softwares: Agisoft PhotoScan, MeshLab

LANGUAGES

French: native
English: fluent (TOEFL ITP 2010: 550/677 - level B2)
Spanish: fluent

ASSOCIATIONS

**Junior Conseil
Phelma**

Project Manager (2010/2012), Head of Project Center (2012/2013) and Honorary Member (since 2013) in the Junior Conseil Phelma (it is a junior enterprise: a non-profit association of students, whose aim is to entrust projects given by industrialists and researchers to Phelma student).
Main projects: Thales, STMicroelectronics, CEA.

Etoile de l'Avenir

Folk Group for Maintenance of Traditions from “Pays d’Arles”
Flute player in a traditional group of the South of France for 17 years and organizer of travels for abroad festivals.