



Gabriel Villalonga Pineda

CONTACT

INFORMATION

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Catalonia, Spain

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RESEARCH INTERESTS

Computer Vision, Pedestrian detection, Autonomous Driving, Scene Understanding, Localization, Deep Learning

EDUCATION

Ph.D. Student

Present

Universitat Autònoma de Barcelona & Computer Vision Center, Spain

- Dissertation title: End-to-End Perception for Autonomous Driving

Master in Computer Vision

2015

Universitat Autònoma de Barcelona, Universitat Oberta de Catalunya, Universitat Politècnica de Catalunya & Universitat Pompeu Fabra, Spain

- Dissertation title: Online City Maps with Pedestrian Behaviours Statistics

Bachelor degree in Computer Science (Hons.)

2014

Universitat Autònoma de Barcelona, Spain

- Dissertation title: Road plane and Pedestrian Detection 3D

GRANTS

Ph.D. grant: Personal Investigador en Formació (PIF)

2016-2018

Universitat Autònoma de Barcelona, Spain

VISITT grant for master students

2015

Computer Vision Center & ASCAMM technology centre, Spain

Mobility scholarship for students

2007

Ministerio de Educación, Spain

PROFESSIONAL EXPERIENCE

Research Intern

2013-Present

Computer Vision Center, Spain

- IDIADA and Samsung projects

PARTICIPATION IN RESEARCH PROJECTS

ACDC: Autonomous Cooperative Drivers in the City

2015-2018

Principal Investigators: Antonio M. López and David Vázquez

Spanish Project TRA2014-57088-C2-1-R

	MAPEA2: Movimiento Acostumbrado de los Peatones: Estudio para Atajar los Accidentes. DGT Principal investigator: A.M. López	2015
	Autonomous vehicle development CVC-ADAS, UPC-IRI, UMH-UWICORE and APPLUS-IDIADA	2014-Present
	Vehicle automatization and localization VISIT project by CVC-ADAS and ASCAMM	2014-2015
	eCo-DRIVERS: Ecologic Cooperative Driver and Road Intelligent Visual Exploration for Route Safety Spanish Project TRA2011-29454-C03-00-00	2011-2015
PARTICIPATION IN INDUSTRIAL PROJECTS	APPLUS+ IDIADA(2) Principal investigators: Antonio M. López and David Vázquez Investigators: Gabriel Villalonga	2014-2015
	Samsung Principal investigators: Antonio M. López and David Vázquez Investigators: Gabriel Villalonga	2014
	APPLUS+ IDIADA(1) Principal investigators: Antonio M. López and David Vázquez Investigators: Gabriel Villalonga	2013-2014
TECHNICAL SKILLS	Programming: C/C++, Java, Matlab Libraries: <i>Vision</i> (OpenCV), <i>Algebra</i> (Lapack, libMatrix), <i>Images</i> (libJPG, libPNG, libTif, zLib), <i>Machine Learning</i> (SVMlight, libSVM, libLinear), MatConvNet, QT, ROS Others: Windows, Linux, L ^A T _E X	
LANGUAGES	Spanish: mother tongue Catalan: mother tongue	English: B2.1
PUBLICATIONS	Conference Papers Multiview Random Forest of Local Experts Combining RGB and LIDAR data for Pedestrian Detection A. Gonzalez, G. Villalonga, J. Xu, D. Vázquez, J. Amores & A. López In <i>IEEE Intelligent Vehicles Symposium (IV)</i> 3D-Guided Multiscale Sliding Window for Pedestrian Detection A. Gonzalez, G. Villalonga, G. Ros, D. Vázquez & A. López In <i>Iberian Conference on Pattern Recognition and Image Analysis (IbPRIA)</i>	2015 2015
DEMOS	Autonomous Vehicle Simulator G. Villalonga, A. Gonzalez, A. Shuvín, L. Sellart, D. Vázquez, G. Ros & A. M. López	2015

3D Pedestrian Detection via Random Forest **2015**
G. Villalonga, A. Gonzalez, G. Ros, D. Vazquez & A. M. Lopez.
Demo at Iberian Pattern Recognition and Image Analysis (IbPRIA), Santiago de Compostela

Autonomous Vehicle Simulation **2015**
G. Villalonga, A. Gonzalez, A. Shuvín, L. Sellart, G. Ros, D. Vazquez & A. M. Lopez.
MEMEnginy 15, feast of engineering school (ETSE), Barcelona

Autonomous Vehicle Simulator **2015**
G. Villalonga, A. Gonzalez, A. Shuvín, L. Sellart, D. Vázquez, G. Ros & A. M. López
NOVUM 15, Science feast of Barcelona

3D Pedestrian Detection **2015**
G. Villalonga, A. Gonzalez, G. Ros, D. Vazquez & A. M. Lopez.
Saló del Ensenyament, Barcelona

3D Pedestrian Detection via Random Forest **2014**
G. Villalonga, S. Ramos, G. Ros, D. Vazquez & A. M. Lopez.
Demo at European Conference on Computer Vision (ECCV), Zurich

3D Pedestrian Detection **2014**
G. Villalonga, S. Ramos, G. Ros, D. Vazquez & A. M. Lopez.
MEMEnginy 14, feast of engineering school (ETSE), Barcelona

INVITED TALKS **University of Alcalá, Learning to Drive in a Virtual World, Spain** Nov 2015

AWARDS **Best Master Thesis on Intelligent Transportation Systems - Third Prize** by IEEE Spanish Chapter of Intelligent Transportation Systems **2015**

Best Bachelor Dissertation Poster on Computer Science - First Prize by Universitat Autònoma de Barcelona **2014**