

CONTACT INFORMATION	Office: 32-D475D 32 Vassar Street, Cambridge 02139, MA, USA	<i>e-mail:</i> jmarin@csail.mit.edu <i>mobile:</i> +1 (857) 352-8659
CITIZENSHIP	Spanish	
RESEARCH INTERESTS	Computer Vision, Deep Learning, Cross-modal learning, Random Subspace Methods	
EDUCATION	<p><b>PhD in Computer Vision</b> (Doctor Europeus/Cum laude) <span style="float: right;"><b>2013</b></span>  <b>Universitat Autònoma de Barcelona</b>, Spain</p> <ul style="list-style-type: none"> <li>• Thesis title: Pedestrian Detection Based on Local Experts</li> <li>• Advisor: Professor Antonio M. López</li> <li>• Area of Study: Computer Vision for Advanced Driver Assistance Systems</li> <li>• Scholarship: FPI Spanish government grant</li> </ul> <p><b>MSc in Artificial Intelligence and Computer Vision</b> <span style="float: right;"><b>2009</b></span>  <b>Universitat Autònoma de Barcelona</b>, Spain</p> <ul style="list-style-type: none"> <li>• Dissertation title: Virtual Learning for Real Testing</li> </ul> <p><b>Postgraduate Certificate in Education (Mathematics)</b> <span style="float: right;"><b>2008</b></span>  <b>Universitat de les Illes Balears</b>, Spain</p> <p><i>Licenciatura</i> in Mathematics (5 year studies) <span style="float: right;"><b>2007</b></span>  <b>Universitat de les Illes Balears</b>, Spain</p>	
PROGRAMS & COURSES	<p><b>Kaufman Teaching Certificate Program</b> <span style="float: right;"><b>2017</b></span>  <b>Massachusetts Institute of Technology</b>, United States of America</p> <p><b>Leadership and Management Skills Course for Scientists</b> <span style="float: right;"><b>2017</b></span>  <b>Massachusetts Institute of Technology</b>, United States of America</p> <ul style="list-style-type: none"> <li>• Developed and conducted by hfp consulting</li> </ul>	
INTERSHIPS & VISITS	<p><b>Visiting researcher scholar</b> <span style="float: right;"><b>2017</b></span>  Social Computing at <b>QCRI</b>, Qatar</p> <ul style="list-style-type: none"> <li>• Objective: To collaborate with the Social Computing team</li> <li>• Advisor: Dr. Ingmar Weber</li> </ul> <p><b>PhD internship</b> <span style="float: right;"><b>2012</b></span>  MMP group at <b>RWTH Aachen University</b>, Germany</p> <ul style="list-style-type: none"> <li>• Objective: To develop a robust part-based pedestrian detector</li> <li>• Advisor: Professor Bastian Leibe</li> </ul> <p><b>PhD internship</b> <span style="float: right;"><b>2011</b></span>  PR group at <b>Bangor University</b>, United Kingdom</p> <ul style="list-style-type: none"> <li>• Objective: To develop a general approach for handling partial occlusions</li> <li>• Advisor: Professor Ludmila I. Kuncheva</li> </ul>	

PROFESSIONAL EXPERIENCE	<p><b>Post-doctoral research associate</b> <span style="float: right;"><b>2016-Present</b></span> MIT CSAIL , USA</p> <ul style="list-style-type: none"> <li>• Learning cross-modal embeddings for (text) cooking recipes and food images. Using machine learning to understand health habits from social media images and content.</li> </ul> <p><b>Algorithm Development Engineer</b>, Camera / Driver Assistance <span style="float: right;"><b>2015-2016</b></span> Delphi Deutschland GmbH , Germany</p> <ul style="list-style-type: none"> <li>• Lane departure warning and pedestrian detection.</li> </ul> <p><b>Researcher and Project Manager</b> <span style="float: right;"><b>2013-2015</b></span> Starlab, Spain</p> <p>Project management, proposal redaction and software development in private and public European and local projects (FP7, ESA, ACCIO).</p> <ul style="list-style-type: none"> <li>• Project management and consortium coordination (<a href="http://www.owasis.co.uk">http://www.owasis.co.uk</a>).</li> <li>• Project management, design and implementation of an operational service for jellyfish prediction in the Mediterranean based on in-situ observations, oceanic data and models and learning algorithms (<a href="http://www.star2earth.com/starjelly">www.star2earth.com/starjelly</a>).</li> <li>• Design and implementation of a vision-based emotion recognition system (<a href="http://www.beaming-eu.org">www.beaming-eu.org</a>).</li> <li>• Design and implementation of an EEG-ECG biometric system robust to spoofing attacks (<a href="https://www.tabularasa-euproject.org">https://www.tabularasa-euproject.org</a>).</li> <li>• Design and implementation of an EEG-based diagnosis system for neurodegenerative diseases (<b>MJFF</b>).</li> </ul> <p><b>Lecturer</b>, Computer Science Department <span style="float: right;"><b>2014-2016</b></span> <b>Universitat Autònoma de Barcelona</b>, Spain</p> <ul style="list-style-type: none"> <li>• Master in Computer Vision: Ensemble methods 2 - Random forests</li> </ul> <p><b>Assistant Professor</b>, Computer Science Department <span style="float: right;"><b>2010-2013</b></span> <b>Universitat Autònoma de Barcelona</b>, Spain</p> <ul style="list-style-type: none"> <li>• Subjects: Artificial Intelligence II and Software Engineering</li> </ul>
JOURNALS	<p><b>Occlusion Handling via Random Subspace Classifiers for Human Detection</b> J. Marín, D. Vázquez, A. M. López, J. Amores &amp; L. I. Kuncheva In <i>IEEE Transactions on Systems, Man, and Cybernetics-part B: Cybernetics</i>, 2014</p> <p><b>Virtual and Real Adaptation for Pedestrian Detection</b> D. Vázquez, A. M. López, J. Marín, D. Gerónimo &amp; D. Ponsa In <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i>, 2014</p> <p><b>Learning a Part-based Pedestrian Detector in Virtual World</b> J. Xu, D. Vázquez, A. M. López, J. Marín &amp; D. Ponsa In <i>IEEE Transactions on Intelligent Transportation Systems</i>, 2014</p>

- CONFERENCES
- Learning Cross-modal Embeddings for Cooking Recipes and Food Images**  
A. Salvador, N. Hynes, Y. Aytar, J. Marín, F. Ofli, I. Weber, A. Torralba  
In *30th IEEE Conference on Computer Vision and Pattern Recognition*, 2017
- Face-to-BMI: Using Computer Vision to Infer Body Mass Index on Social Media**  
E. Kocabey, M. Camurcu, F. Ofli, Y. Aytar, J. Marín, A. Torralba, I. Weber  
In *11TH International AAAI Conference on web and social media*, 2017
- Advanced Machine Learning for classification of EEG traits as Parkinsons biomarker**  
J. Marín, A. Soria-Frisch, D. Ibáñez, S. Dunne, C. Grau, G. Ruffini, J. Rodrigues-Brazète, R. Postuma, J. Gagnon, J. Montplaisir & A. Pascual-Leone  
In *Neuroinformatics Conference*, 2014
- Random Forests of Local Experts for Pedestrian Detection**  
J. Marín, D. Vázquez, J. Amores, A. M. López & B. Leibe  
In *14th IEEE International Conference on Computer Vision*, 2013
- Learning a Multiview Part-based Model in Virtual World for Pedestrian Detection**  
J. Xu, D. Vázquez, A. M. López, J. Marín, & D. Ponsa  
In *IEEE Intelligent Vehicles Symposium*, 2013
- Cool world: domain adaptation of virtual and real worlds for human detection using active learning**  
D. Vázquez, A. M. López, D. Ponsa, & J. Marín  
In *Neural Information Processing Systems Domain Adaptation Workshop*, 2011
- Virtual Worlds and Active Learning for Human Detection**  
D. Vázquez, A. M. López, D. Ponsa, & J. Marín  
In *13th International Conference on Multimodal Interaction*, 2011
- Learning Appearance in Virtual Scenarios for Pedestrian Detection**  
J. Marín, D. Vázquez, D. Gerónimo, & A. M. López  
In *23rd IEEE Conference on Computer Vision and Pattern Recognition*, 2010
- BOOK CHAPTERS
- Pedestrian detection: exploring virtual worlds**  
J. Marín, D. Gerónimo, D. Vázquez, & A. M. López  
In *Handbook of Pattern Recognition: Methods and Applications*, i-Concept Press, 2012
- PATENTS
- Image Processing System to Detect Object of Interest**  
F. G. Rajabizadeh, Y. Su, J. Marín, & A. Colombo  
EU Patent application number: EP16175330.6, filled June 2016.  
Applicant: Delphi Technologies, Inc.
- SEMINARS
- Pedestrian Detection: Learning from Virtual Scenarios 2011  
Bangor University, United Kingdom

SUPERVISION	<p>Co-supervision research assistant Nazia Attari          Co-advisors: Dr. Ferda Ofli and Dr. Sanjay Chawla          QCRI, Doha, Qatar</p> <p>Co-supervision PhD student Farzin Ghorban Rajabizadeh          Co-advisors: Dr. Alessandro Colombo and Dr. Yu Su          Delphi Deutschland GmbH, Wuppertal, Germany</p>	<p><b>2017</b></p> <p><b>2016</b></p>
VOLUNTEERING ACTIVITIES	<p>International Conference in Computer Vision (ICCV)          Barcelona, Spain</p> <p>Eurographics Conference          Bangor, United Kingdom</p> <p>Proves Cangur (Le Kangourou sans Frontières)          Mallorca, Spain</p>	<p><b>2011</b></p> <p><b>2011</b></p> <p><b>2006</b></p>
TECHNICAL SKILLS	<p><b>Programming:</b> C/C++, Python, Matlab, PyTorch, MatConvNet  <b>Applications/IDE:</b> Visual Studio, Qt Creator, ENVI, SVNTortoise, L<sup>A</sup>T<sub>E</sub>X, MS Office,          Freehand, Fireworks and Corel Draw  <b>Operating Systems:</b> Windows, OS X, and Linux</p>	
LANGUAGES	<p><b>Spanish:</b> mother tongue  <b>Catalan:</b> mother tongue</p>	<p><b>English:</b> fluent written and oral  <b>French:</b> good written and oral</p>
PERSONAL INTERESTS	<p>Black belt in karate, Brazilian jiu-jitsu, running races          Folkloric dancer</p>	
REFERENCES	<p>Available upon request</p>	