

# Andrea Palazzi

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## SKILLS

Topics: Computer Vision, Deep Learning, Machine Learning.  
Languages: Python, Matlab, C++, C. Proficient with Git.  
Libraries: OpenCV, TensorFlow, PyTorch, Keras, Theano.

## EDUCATION

11/2016-ongoing *PhD Student*  
University of Modena and Reggio Emilia, Italy.  
Topic: *Computer Vision and Deep Learning techniques applied to Automotive.*  
Supervisor: Prof. Rita Cucchiara.

2012-2015 *Master's Degree in Computer Engineering*  
University of Modena and Reggio Emilia, Italy.  
Mark: 110 / 110 cum laude.

2009-2012 *Bachelor's Degree in Computer Engineering*  
University of Modena and Reggio Emilia, Italy.

## WORK EXPERIENCE

05/2018 – 08/2018 *Applied Scientist Intern*  
Amazon Berlin, Computer Vision Team

09/2015 – 10/2016 *Research Fellow at ImageLab*  
University of Modena and Reggio Emilia

01/2015 – 09/2015 *Software Developer in R&D (Natural Language Processing)*  
Internship at Expert System, Modena, Italy

## TEACHING ACTIVITIES

2017 *Deep Learning*, course lecturer in Master of Visual Computing (UniMoRe) [[Slides](#)].  
*Computer Vision*, laboratory lecturer (UniMoRe).  
*Machine Learning and Pattern Recognition*, laboratory lecturer (UniMoRe).

2016 *Computer Vision*, laboratory lecturer (UniMoRe).  
*Machine Learning and Pattern Recognition*, laboratory lecturer (UniMoRe).

## CERTIFICATES, COURSES, SCHOOLS ATTENDED

2017 Certificate of *Self-Driving Car Engineer Nanodegree* (Udacity).

2016 *RegML 2016*, summer school on Regularization Methods for Machine Learning held by Lorenzo Rosasco at IIT (Genoa)

2015 Certificate of *Machine Learning Course* (Coursera)  
Passed government exam and licensed as a professional engineer

2013 *Second Short Spring School in Surveillance*, organized by ImageLab Research Group at UniMoRe, Modena.

## LANGUAGES

Italian:	mother tongue	German:	basic
English:	proficient	French:	basic

## OTHER PROJECTS

2016	Engineering and development of a <i>face detection and recognition system embedded on RaspBerry Pi 2</i> for Nortech Engineering Srl, Bologna.
Before 2016	Pet projects I made during my time in college can be found on my <a href="#">youtube channel</a> .

## PRESS

2016	International science magazine New Scientist, dedicates a <a href="#">cover article</a> to ImageLab's research about recognition of non-verbal behaviours.
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## SELECTED PUBLICATIONS

2018	<p>Palazzi, A., Bergamini, L., Calderara, S. &amp; Cucchiara, R. <i>"End-to-end 6-DoF Object Pose Estimation through Differentiable Rasterization"</i>. In proceedings of the European Conference of Computer Vision Workshops (ECCVW).</p> <p>Fabbri, M., Lanzi, F., Calderara, S. Palazzi, A., Vezzani, R., &amp; Cucchiara, R. <i>"Learning to Detect and Track Visible and Occluded Body Joints in a Virtual World"</i>. European Conference of Computer Vision (ECCV).</p> <p>Antonio Marin-Reyes, P., Palazzi, A., Bergamini, L., Calderara, S., Lorenzo-Navarro, J., &amp; Cucchiara, R. <i>"Unsupervised Vehicle Re-Identification Using Triplet Networks"</i>. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW).</p>
2017	<p>Palazzi, A., Abati, D., Calderara, S., Solera, F., &amp; Cucchiara, R. <i>"Predicting the Driver's Focus of Attention: the DR (eye) VE Project"</i>. Transactions on Pattern Analysis and Machine Intelligence (TPAMI) .</p> <p>Palazzi, A., Borghi, G., Abati, D., Calderara, S., &amp; Cucchiara, R., <i>"Learning to Map Vehicles into Bird's Eye View"</i>. In International Conference on Image Analysis and Processing (ICIAP) 2017 (Oral Presentation, Special Mention Best Paper Award)</p> <p>Palazzi, A., Solera, F., Calderara, S., Alletto, S., &amp; Cucchiara, R. (2017, June). <i>"Learning Where to Attend Like a Human Driver"</i>. In Intelligent Vehicles Symposium (IV), 2017 IEEE (pp. 920-925). IEEE.</p> <p>Cornia, M., Abati, D., Baraldi, L., Palazzi, A., Calderara, S., &amp; Cucchiara, R. (2017). <i>Attentive Models in Vision: Computing Saliency Maps in the Deep Learning Era</i>. In <i>16th International Conference of the Italian Association for Artificial Intelligence</i>. (Oral Presentation)</p>
2016	<p>Palazzi, A., Calderara, S., Bicocchi, N., Vezzali, L., di Bernardo, G. A., Zambonelli, F., &amp; Cucchiara, R. (2016, September). <i>"Spotting prejudice with nonverbal behaviours"</i>. In Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (pp. 853-862). ACM. (Oral Presentation)</p> <p>Alletto, S., Palazzi, A., Solera, F., Calderara, S., &amp; Cucchiara, R. (2016). <i>"Dr (Eye) Ve: A dataset for attention-based tasks with applications to autonomous and assisted driving"</i>. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW).</p>