

# Andrea Palazzi

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## SKILLS

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

2019 *Neural network computing, AI and machine learning for automotive, laboratory lecturer (UniMoRe).*

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 AlmageLab Research Group at UniMoRe, Modena.

## LANGUAGES

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

## OTHER PROJECTS

- 2016 – ongoing      Open-sourcing software and teaching material on [GitHub](#) and [YouTube](#).
- 2016      Engineering and development of a *face detection and recognition system embedded on RaspBerry Pi 2* for Nortech Engineering Srl, Bologna.

## PRESS

- 2016      International science magazine New Scientist, dedicates a [cover article](#) to my research about automatic recognition of non-verbal behaviours.

## SELECTED PUBLICATIONS

(complete list is on [scholar](#))

- 2019      Palazzi, A., Bergamini, L., Calderara, S. & Cucchiara, R. “Semi-parametric Object Synthesis” ([pre-print paper](#), [project page](#))
- Bergamini, L., Trachtman, Abigail Rose, Palazzi, A. et al. “Segmentation Guided Scoring of Pathological Lesions in Swines Through Convolutional Neural Networks” In International Conference on Image Analysis and Processing (ICIAP) 2019 ([project page](#))
- 2018      Palazzi, A., Bergamini, L., Calderara, S. & Cucchiara, R. “*End-to-end 6-DoF Object Pose Estimation through Differentiable Rasterization*”. In proceedings of the European Conference of Computer Vision Workshops (ECCVW). ([project page](#))
- Fabbri, M., Lanzi, F., Calderara, S. Palazzi, A., Vezzani, R., & Cucchiara, R. “*Learning to Detect and Track Visible and Occluded Body Joints in a Virtual World*”. European Conference of Computer Vision (ECCV). ([project page](#))
- 2017      Palazzi, A., Abati, D., Calderara, S., Solera, F., & Cucchiara, R. “*Predicting the Driver’s Focus of Attention: the DR (eye) VE Project*”. Transactions on Pattern Analysis and Machine Intelligence (TPAMI). ([project page](#), [code](#))
- Palazzi, A., Borghi, G., Abati, D., Calderara, S., & Cucchiara, R., “*Learning to Map Vehicles into Bird’s Eye View*”. In International Conference on Image Analysis and Processing (ICIAP) 2017 (Oral Presentation, Special Mention Best Paper Award) ([project page](#), [code](#))
- Palazzi, A., Solera, F., Calderara, S., Alletto, S., & Cucchiara, R. (2017, June). “*Learning Where to Attend Like a Human Driver*”. In Intelligent Vehicles Symposium (IV), 2017 IEEE (pp. 920-925). IEEE.
- 2016      Palazzi, A., Calderara, S., Bicocchi, N., Vezzali, L., di Bernardo, G. A., Zambonelli, F., & Cucchiara, R. (2016, September). “*Spotting prejudice with nonverbal behaviours*”. In Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (pp. 853-862). ACM. (Oral Presentation)
- Alletto, S., Palazzi, A., Solera, F., Calderara, S., & Cucchiara, R. (2016). “*Dr (Eye) Ve: A dataset for attention-based tasks with applications to autonomous and assisted driving*”. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW). ([project page](#), [code](#))