Marco Ciccone

PERSONAL INFORMATION

Surname:	Ciccone
Name:	Marco
Date of birth:	25 Nov 1988
Nationality:	Italian
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RESEARCH INTERESTS

Deep Learning, Information Geometry, Meta-Learning, Unsupervised Learning, Reinforcement Learning, Optimization, Computer Vision.

EDUCATION

Politecnico di Milano, Italy

PhD in Computer Science and Engineering **2nd year**

"Robustness and Stability of Deep Neural Networks"

Advisor: Prof. Matteo Matteucci

I'm both interested to applied and theoretically grounded research. I've mostly worked on deep learning models for image and video scene understanding and more recently on the stability and robustness of such models.
In the last months I had the opportunity to spend some time on very interesting topics that I'm going to explore more in the next future:

– Defense against Adversarial Attacks
– Information Geometry of Deep Neural Networks
– Dynamic Compositional Models
– Meta-Learning

Politecnico di Milano, Italy

MSc in Computer Science and Engineering **April 2016**

– Thesis: *"Pixelwise Semantic Segmentation of urban scenes using Recurrent Deep Neural Networks"*
– Advisors: Prof. Matteo Matteucci, Phd Francesco Visin
– Language: English
– Grade: *110/110 cum Laude*
– GPA: *28.85/30*

Università degli Studi di Firenze, Italy

B.Sc. in Computer Engineering   **July 2013**

– Thesis: *"Blind Source Separation methods for multichannel audio signals based on Independent Component Analysis"*
– Advisor: Prof. Fabrizio Argenti
– Language: Italian
– Grade: 97/110

PUBLICATIONS

[1] A. Romanoni, M. Ciccone, F. Visin, and M. Matteucci, "Multi-view stereo with single-view semantic mesh refinement," in *IEEE International Conference on Computer Vision (ICCV)*, pp. 706–715, 2017

[2] F. Visin, M. Ciccone, A. Romero, K. Kastner, C. Kyunghyun, Y. Bengio, M. Matteucci, and A. Courville, "ReSeg : A Recurrent Neural Network-based Model for Semantic Segmentation," in *IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2016

– **Best paper award DeepVision Workshop at CVPR2016**
– **ReSeg code available at: https://github.com/fvisin/reseg**

ACADEMIC
EXPERIENCE

Deep Learning 2017/2018, Prof. Matteo Matteucci

PhD and MSc Course at Politecnico di Milano

Teaching Assistant   **February 2018**

– Tensorflow and Pytorch Tutorial
– Advanced Convolutional Neural Networks

Cognitive Robotics 2016/2017, Prof. Matteo Matteucci

MSc Course at Politecnico di Milano

Teaching Assistant   **June 2017**

– Deep Learning Introduction
– From Linear Models to Deep Neural Networks
– Convolutional Neural Networks
– Recurrent Neural Networks

CONFERENCES AND
COURSES

Machine Learning Summer School 2017, Tubingen, Germany

Acceptance Rate: 13%   **19-30 June 2017**

International Computer Vision Summer School 2017, Sicily, Italy

Acceptance Rate: 35%   **9-15 July 2017**

International Conference on Acoustics, Speech, and Signal Processing ICASSP 2014, Florence, Italy

Staff volunteer   **4-9 May 2014**

Attended tutorials :

– Informed Audio Source Separation: Trends, Approaches and Algorithms
– Deep learning for natural language processing and related applications

PROFESSIONAL
EXPERIENCE

NNAISENSE, Lugano, Switzerland

Research Intern   **July 2017 - January 2018**

I spent 7 months as research intern at NNAISENSE tutored by Jonathan Masci and Marco Gallieri. In this time I worked on stability and robustness of Residual and Highway Networks from a control theory perspective.

Horus Technology, Milan, Italy

Machine Learning Engineer   **June 2016 - June 2017**

Horus Technology is an Italian start-up (recently rebranded as Eyra) that operates in the field of Artificial Intelligence. Its first product, Horus, is a wearable device that aims to assist blind and visually impaired people thanks to state-of-the-art computer vision technology. During my time here, I worked on deep learning models for Object Recognition and Scene Analysis to be deployed on a low power embedded system based on NVIDIA TK1. I also supervised an intern, whose work on deep visual descriptors became his MSc thesis.

Projest S.p.A., Prato, Italy

IT Consultant - Software Engineer   **Nov 2009 - Oct 2012**

I carried out several consulting projects as IT consultant for Guccio Gucci S.p.A., Gucci Logistica S.p.A. and other clients. My job was to gather the requirements directly from the customer and after the analysis, to realize web applications for managing the orders and for the Quality Assurance of the production.

LANGUAGES AND
CERTIFICATES

English

– Highly proficient in spoken and written English
– TOEFL Score: 87/120 (To be updated)   **September 2013**

Italian

– Native speaker

French

– Basic communication skills

COMPUTER SKILLS
– Programming Languages: C, C++, Matlab, Python, Lua, Unix shell scripts, LaTeX, PHP, HTML, Javascript
– Machine Learning Frameworks: TensorFlow, Theano, Torch/PyTorch
– Database: MySQL, Microsoft SQLServer
– Operating Systems: Unix/Linux, Mac OS X, Windows.