

# Emanuele SANSONE

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Trento, Italy | 11 September 1987  
ADDRESS: Via dei Ori 42, 38010, Fai della Paganella, Italy  
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## ACADEMIC EXPERIENCE

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|-------------------|--|
| 2016              | Teaching Assistant, Computer Vision (Code 140266)<br><i>M.Sc. in Telecommunications Engineering, University of Trento, Italy</i><br>Machine Learning for Computer Vision (introduction to statistical learning theory and neural networks).  |
| 2015              | Teaching Assistant, Multimedia Networking (Code 140151)<br><i>M.Sc. in Telecommunications Engineering, University of Trento, Italy</i><br>Principles of video compression/coding (useful for transmission/storage of video files).   |
| 2013-CURRENT      | Ph.D. candidate<br><i>ICT doctoral school, University of Trento, Italy</i><br>Supervised by Prof. Francesco G.B. De Natale.<br>My research focuses in machine learning. In particular, I'm working to solve the problem of learning a classifier (e.g. neural network) with little supervision (one or a handful of labeled samples) by exploiting unlabeled data. |
| SEP 2015-MAR 2016 | Research Intern<br><i>LAMDA group, Nanjing University, China</i><br>Supervised by Prof. Zhi-Hua Zhou.<br>I've studied semi-supervised learning as well as positive unlabeled learning.   |

## SPORT EXPERIENCE

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| 2011-CURRENT | Ski master instructor<br><i>Italy</i><br>Holding several professional education and training courses for ski instructors and candidate ski instructors. This is the highest professional degree in alpine skiing ( <a href="#">the total number of ski master instructors in Italy is around 200</a> ). |
| 2007-CURRENT | Ski coach<br><i>Italy</i><br>Coach of young athletes (6-20 years old) in several racing ski teams: Ski Team Sopramonte (2007/2008), Sci Club Padova (2008/2009), Sci Club Panarotta (2009-2011), Ski Team Paganella (2013/2014), Campiglio Ski Team (2016/2017).  |
| 2002-2007    | Ski athlete<br><i>Italy</i><br>See a sample <a href="#">list of records</a> .   |

## EDUCATION

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- 2011-2012    M.Sc. in TELECOMMUNICATIONS ENGINEERING  
University of Trento, Italy  
Thesis: "Multimodal Photo Galleries Synchronization"  
Advisor: Prof. Nicola Conci, Giulia Boato  
110/110 *summa cum laude* | GPA: 28.82/30
- 2008-2010    B.Sc. in TELECOMMUNICATIONS ENGINEERING  
University of Trento, Italy  
Thesis: "Master P-NET protocol implementation on PIC 32 architecture"  
Advisor: Prof. Dario Petri, Eng. Michele Corrà

## AWARDS AND CERTIFICATES

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- SEP 2016    Academic hardware grant award  
*Hong Kong, China*  
Provision of a NVIDIA Titan X GPU  
Organization: [NVIDIA corporation](#)
- JAN 2015    Machine Learning Summer School  
*Austin, USA*  
Certificate of attendance  
Organization: [University of Texas at Austin](#)
- MAR 2012    Merit award  
*Trento, Italy*  
Award assigned to distinguished students  
Organization: University of Trento
- NOV 2011    Ski master instructor  
*Milan, Italy*  
Certificate  
Organization: [FISI](#), [CoScuMa](#)
- SEP 2011    Ski coach (3° level)  
*Milan, Italy*  
Certificate  
Organization: [FISI](#), [STF](#)
- MAY 2007    Ski instructor  
*Trento, Italy*  
Certificate  
Organization: [PAT](#)

## LANGUAGES

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- ITALIAN:    Mothertongue
- ENGLISH:    Fluent (C2)
- GERMAN:    Fluent (B2)
- CHINESE:    Basic (A1)

## PUBLICATIONS

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- 2017 [Automatic Synchronization of Multi-User Photo Galleries](#)  
E. Sansone, K. Apostolidis, N. Conci, G. Boato, V. Mezaris, F.G.B. De Natale  
To appear in IEEE Transactions on Multimedia (TMM)
- 2017 [Efficient Training for Positive Unlabeled Learning](#)  
E. Sansone, F.G.B De Natale, Zhi-Hua Zhou  
Submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- 2016 [Classtering: Joint Classification and Clustering with Mixture of Factor Analysers](#)  
E. Sansone, A. Passerini, F.G.B. De Natale  
European Conference on Artificial Intelligence (ECAI)

## INTERESTS

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- RESEARCH** I'm passionate about artificial intelligence and more specifically machine learning, but I'm also curious about other areas involving the study of the human learning process, like cognitive science. I strongly believe that the practical skiing experience (in the form of learning before as athlete and teaching later as instructor) will help me to provide original contribution to the machine learning community.
- VOLUNTEERING** From 2012 to 2014, I've participated to a no-profit association, [GiPro](#), composed by young representatives of different sectors (e.g. ski instructors, engineers, lawyers, psychologists). The goal of the association is to promote the professional categories on the territory and stimulate the inter-professional collaboration of young people.
- OTHERS** I like travelling around the world. In the past, I had several solo journeys in different countries, like China and Viet Nam.

## REFERENCES

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PROF. FRANCESCO G.B. DE NATALE  
University of Trento, Italy  
[francesco.denatale\(at\)unitn.it](mailto:francesco.denatale(at)unitn.it)

PROF. ZHI-HUA ZHOU  
Nanjing University, China  
[zhouzh\(at\)nju.edu.cn](mailto:zhouzh(at)nju.edu.cn)

PROF. NICOLA CONCI  
University of Trento, Italy  
[nicola.conci\(at\)unitn.it](mailto:nicola.conci(at)unitn.it)