

Emanuele SANSONE

PERSONAL DATA

PLACE AND DATE OF BIRTH: Trento, Italy | 11 September 1987
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ACADEMIC EXPERIENCE

- | | |
|-------------------|--|
| 2016 | Teaching Assistant, Computer Vision (Code 140266)
<i>M.Sc. in Telecommunications Engineering, University of Trento, Italy</i>
Machine Learning for Computer Vision (introduction to statistical learning theory and neural networks). |
| 2015 | Teaching Assistant, Multimedia Networking (Code 140151)
<i>M.Sc. in Telecommunications Engineering, University of Trento, Italy</i>
Principles of video compression/coding (useful for transmission/storage of video files). |
| 2013-CURRENT | Ph.D. candidate
<i>ICT doctoral school, University of Trento, Italy</i>
Supervised by Prof. Francesco G.B. De Natale.
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
<i>LAMDA group, Nanjing University, China</i>
Supervised by Prof. Zhi-Hua Zhou.
I've studied semi-supervised learning as well as positive unlabeled learning. |

SPORT EXPERIENCE

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|--------------|---|
| 2011-CURRENT | Ski master instructor
<i>Italy</i>
Holding several professional education and training courses for ski instructors and candidate ski instructors. This is the highest professional degree in alpine skiing (the total number of ski master instructors in Italy is around 200). |
| 2007-CURRENT | Ski coach
<i>Italy</i>
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
<i>Italy</i>
See a sample list of records . |

EDUCATION

- 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

- 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

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

PUBLICATIONS

- 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, Z.H. 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)
- 2014 [Synchronizing Multi-User Photo Galleries with MRF](#)
E. Sansone, G. Boato, MS. Dao
MediaEval Workshop
- 2013 [Event Clustering and Classification from Social Media: Watershed-based and Kernel Methods](#)
TV. Nguyen, MS. Dao, R. Mattivi, E. Sansone, F.G.B. De Natale, G. Boato
MediaEval Workshop

INTERESTS

- 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 Vietnam.

REFERENCES

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. ANDREA PASSERINI
University of Trento, Italy
[andrea.passerini\(at\)unitn.it](mailto:andrea.passerini(at)unitn.it)

PROF. NICOLA CONCI
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