



Europass Curriculum Vitae

Personal information

First name / Surname **Tatiana Martelli**

**Desired employment /
Occupational field** **Research & Development
Remote Sensing**

Work experience

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|--------------------------------------|--|
| Dates | November 2015 → ON |
| Occupation or position held | Postdoc Researcher |
| Main activities and responsibilities | Signal processing techniques for a DVB-T based Passive Radar (in collaboration with Leonardo-Finmeccanica company) |
| Name and address of employer | DIET Dept. University of Rome 'La Sapienza' |
| Dates | November 2012 → October 2015 |
| Occupation or position held | Ph.D student |
| Main activities and responsibilities | Study on Detection, Localization and Imaging System Based on WiFi-based Passive Radar Technology (in SOS Project co-funded by the European Commission) |
| Name and address of employer | DIET Dept. University of Rome 'La Sapienza' |

Education and training

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| Dates | November 2012 → October 2015 |
| Title of qualification awarded | Ph.D |
| Principal subjects/occupational skills covered | Remote Sensing – Advanced signal processing techniques for WiFi-based Passive Radar for short range surveillance |
| Name and type of organisation providing education and training | Università degli studi di Roma, 'La Sapienza' |
| Dates | March 2010 → October 2012 |
| Title of qualification awarded | Telecommunications engineering, Master Degree |
| Principal subjects/occupational skills covered | Tracking and data fusion algorithms in a Multistatic FM-based Passive Radar |
| Name and type of organisation providing education and training | Università degli studi di Roma, 'La Sapienza' |
| Final Grade | 110 cum laude /110 |
| Dates | September 2004 → December 2009 |
| Title of qualification awarded | Telecommunications engineering, Bachelor Degree |

Principal subjects/occupational skills covered Performance comparison among different configurations of a multi-channel receiver in a polarimetric FM-based Passive Radar

Name and type of organisation providing education and training Università degli studi di Roma, 'La Sapienza'

Final Grade 106 /110

Mother tongue **Italian**

Other language **English**

| Self-assessment <i>European level (*)</i> | Understanding | | Speaking | | Writing | |
|--|---------------|--------------|--------------------|-------------------|---------|--------------|
| | Listening | Reading | Spoken interaction | Spoken production | B2 | intermediate |
| | B2 | intermediate | B2 | intermediate | B2 | intermediate |

(*) *Common European Framework of Reference for Languages*

Social and organisational skills and competences

- Extremely organised person
- Good abilities for synthetic and global views over concrete situations
- End-oriented work capacity
- Problem-solving attitude
- Team-working attitude

Technical and computer skills and competences

- Windows o.s.
- Microsoft Office tools
- good knowledge of MATLAB
- basic knowledge of C++

Driving licence Category B

- Publications**
- F. Colone, T. Martelli, C. Bongioanni, D. Pastina, and P. Lombardo, "WiFi-based PCL for monitoring private airfields", *IEEE Aerospace and Electronic Systems Magazine*, [in print].
 - T. Martelli, F. Colone, C. Bongioanni, D. Pastina, and P. Lombardo, "Short-range passive radar for small private airports surveillance", *European Radar Conference (EURAD) 2016*, London, UK, October 2016.
 - T. Martelli, F. Colone, E. Tilli and A. Di Lallo, "Multi-frequency target detection techniques for DVB-T based passive radar sensors", in *Sensors-Open Access Journal MDPI*, September 2016.
 - F. Colone, C. Palmarini, T. Martelli, and E. Tilli, "Sliding Extensive Cancellation Algorithm for disturbance removal in passive radar," *IEEE Transactions on Aerospace and Electronic Systems*, June 2016.
 - T. Martelli, C. Bongioanni, F. Colone, P. Lombardo, L. Testa, and A. Meta, "Security enhancement in small private airports through active and passive sensors," *International Radar Symposium (IRS) 2016*, Krakow, Poland, May 2016.
 - T. Martelli, F. Colone, P. Lombardo, "First experimental results for a WiFi-based passive forward scatter radar," *IEEE Radar Conference (RadarCon) 2016*, May 2016.
 - C. Palmarini, T. Martelli, F. Colone, and P. Lombardo, "Disturbance removal in passive radar via Sliding Extensive Cancellation Algorithm (ECA-S)," *South African Radar Conference 2015*, Johannesburg, South Africa, October 2015.
 - T. Martelli, D. Pastina, F. Colone, and P. Lombardo, "Enhanced WiFi-based passive ISAR for indoor and outdoor surveillance," *IEEE Radar Conference (RadarCon) 2015*, Washington, USA, May 2015.

- D. Pastina, F. Colone, T. Martelli, and P. Falcone, "Parasitic exploitation of WiFi signals for indoor radar surveillance", *IEEE Transaction on Vehicular Technology*, vol.64, no.4, pp.1401,1415, April 2015.
- A. Macera, C. Bongioanni, F. Colone, C. Palmarini, T. Martelli, D. Pastina, and P. Lombardo, "FM-based Passive Bistatic Radar in ARGUS 3D: Experimental Results," *GTTI 2013 - Riunione Annuale*, Ancona, Italy, 24-26 June 2013.
- C. Bongioanni, F. Colone, T. Martelli, R. D'Angeli, and P. Lombardo, "Exploiting polarimetric diversity to mitigate the effect of interferences in FM-based passive radar," *International Radar Symposium (IRS) 2010*, June 2010.

Additional information

- Attendance to the course "*Leaky Waves and Periodic Structures for antenna Applications*", European School of Antennas (2th Edition), 14-17 April 2014, Rome.
- Attendance to the course "Corso di scrittura tecnico-scientifica", February 2014, Rome.
- Attendance to the "*5rd International Summer School on Radar/SAR*", Bonn, Germany, 12-19 July 2013.
- Attendance to the course of *LabVIEW Core II*, 14-15 February 2013, Rome.
- Attendance to the course of *LabVIEW Core I*, 3-5 December 2012, Rome.