

Dr. **Alice Meda** ( ) has been a permanent researcher at INRIM in Quantum metrology and nano technologies Division since 2017. She developed skills in quantum optics, classical and quantum radiometry, quantum communication and quantum imaging technologies. Her most recent works regard the development of single photon metrology for real word QKD application and the application of quantum imaging and sensing protocols in the framework of different European and International projects.

Until March 2015, she was the Principal Investigator of the Torino Research Unit for the Italian three year project "FIRB 2010 - Futuro in Ricerca" Light correlations for high precision innovative sensing (LICHIS) . She has been the INRIM delegate of Comité Consultatif de Photométrie et Radiométrie (CCPR) since 2019. She is author of 51 publications, with an h-index of 13 (Scopus ID: 25637456000). Five relevant publications:

1. H. Georgieva, A. Meda, S. M. F. Raupach, H. Hofer, M. Gramegna, I. P. Degiovanni, M. Genovese, M. López, S. Kück, Detection of ultra-weak laser pulses by free-running single-photon detectors: Modeling dead time and dark counts effects, *Applied Physics Letters*, 118(17), 174002 (2021)
2. N. Samantaray, I. Ruo-Berchera, A. Meda, M. Genovese, Realization of the first sub-shot-noise wide field microscope, *Light: Science and Applications*, 6(7), e17005 (2017)
3. A. Meda, E. Losero, N. Samantaray, F. Scafirimuto, S. Pradyumna, A. Avella, I. Ruo-Berchera and M. Genovese, Photon-number correlation for quantum enhanced imaging and sensing, *Journal of Optics (United Kingdom)*, 19(9), 094002 (2017)
4. A. Meda, I. P. Degiovanni, A. Tosi, Z. Yuan, G. Brida, M. Genovese, Quantifying backflash radiation to prevent zero-error attacks in quantum key distribution, *Light: Science and Applications*, 6(6), pp. e16261 (2017)
5. G. Brida, I. P. Degiovanni, A. Florio, M. Genovese, P. Giorda, A. Meda, M. G. A. Paris, and A. Shurupov, Experimental estimation of entanglement at the quantum limit, *Physical Review Letters*, 104(10), 100501 (2010)