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## **Cavities for light and sound: a cavity-enhanced platform for quantum acoustics**

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# Curriculum Vitae

## Matteo Fisicaro

31-07-1994 Born in Villafranca di Verona (VR), Italy.

### Education

- 2008-2013 Scientific high school  
Liceo scientifico Belfiore, Mantova, Italy
- 2013-2016 BSc Physics  
University of Trento
- 2017-2019 MSc Physics of matter,  
University of Padova
- 2019-2024 PhD Physics  
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# List of publications

1. V. Fedoseev, **M. Funicaro**, H. van der Meer, W. Löffler, and D. Bouwmeester, Realignment-free cryogenic macroscopic optical cavity coupled to an optical fiber, *Review of Scientific Instruments* 93, 013103 (2022).
2. **M. Funicaro**, M. Witlox, H. van der Meer, and W. Löffler, Active stabilization of an open-access optical microcavity for low-noise operation in a standard closed-cycle cryostat, *Review of Scientific Instruments* 95, 033101 (2024).
3. **M. Funicaro**, T. A. Steenbergen, Y. C. Doedes, K. Heck, and W. Löffler, Imaging Transverse Modes in a GHz Surface Acoustic Wave Cavity, submitted, arXiv:2408.11630.
4. **M. Funicaro**, Y. C. Doedes, T. A. Steenbergen, M. P. van Exter, and W. Löffler, Observation of the Talbot Effect from a Surface Acoustic Wave Dynamic Grating, submitted, arXiv:2409.11161.
5. **M. Funicaro**, T. A. Steenbergen, Y. C. Doedes and W. Löffler, Investigation of spurious bulk acoustic waves in surface acoustic wave devices by acoustic fringe analysis, to be submitted.



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