

# Curriculum Vitae

**Name and Surname:** Paolo Franceschini

**Date and Place of Birth:** January 13th, 1993 - Brescia (Italy)

## Education

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| Nov. 2017- Feb. 2022  | Ph.D. Student<br>International Doctoral Program in Science.<br>Università Cattolica del Sacro Cuore<br>(Italy) and Katholieke Universiteit Leuven<br>(Belgium) |
| Oct. 2015- Sept. 2017 | M. S. in Physics<br>Università Cattolica del Sacro Cuore (Italy)   |
| Oct. 2012- Oct. 2015  | B. S. in Physics<br>Università Cattolica del Sacro Cuore (Italy)   |



# List of Publications

## 2021

A. Ronchi, P. Franceschini, P. Homm, M. Gandolfi, G. Ferrini, S. Pagliara, F. Banfi, M. Menghini, J.-P. Locquet, and C. Giannetti, *Light-Assisted Resistance Collapse in a  $V_2O_3$ -Based Mottronic Device*, Phys. Rev. Applied **15**, 044023 (2021).

S. Mor, V. Gosetti, A. Molina-Sanchez, D. Sangalli, S. Achilli, P. Franceschini, C. Giannetti, V. F. Agekyan, L. Sangaletti, S. Pagliara, *Photoinduced Modulation of an Excitonic Resonance via Coupling with Coherent Optical Phonons in a Layered Semiconductor*, Accepted in Phys. Rev. Research (Nov. 2021).

A. Ronchi, P. Franceschini, A. De Poli, P. Homm, A. Fitzpatrick, F. Maccherozzi, G. Ferrini, F. Banfi, S.S. Dhesi, M. Menghini, M. Fabrizio, J.-P. Locquet, and C. Giannetti, *Nanoscale Self-Organisation in Mott Insulators: a Richness in Disguise*, Submitted to Nat. Comm. (Aug. 2021).

P. Franceschini, V. Policht, S. Mor, A. Ronchi, A. Milloch, S. Pagliara, M. Menghini, J.-P. Locquet, S. Dal Conte, G. Cerullo, and C. Giannetti, *Coherent Electronic Control of a Photoinduced Insulator-to-Metal Transition*, manuscript in preparation (Dec. 2021).

## 2020

P. Franceschini, L. Carletti, A. P. Pushkarev, F. Preda, A. Perri, A. Tognazzi, A. Ronchi, G. Ferrini, S. Pagliara, F. Banfi, D. Polli, G. Cerullo, C. De Angelis, S. V. Makarov, and C. Giannetti, *Tuning the Ultrafast Response of Fano Resonances in Halide Perovskite Nanoparticles*, ACS Nano 2020, 14, 10, 13602.

## 2019

A. Ronchi, P. Homm, M. Menghini, P. Franceschini, F. Maccherozzi, F. Banfi, G. Ferrini, F. Cilento, F. Parmigiani, S. S. Dhesi, M. Fabrizio, J.-P. Locquet, and C. Giannetti, *Early-Stage Dynamics of Metallic Droplets Embedded in the Nanotextured Mott Insulating Phase of  $V_2O_3$* , Phys. Rev. B **100**, 075111 (2019).

C. M. Kropf, A. Valli, P. Franceschini, G. L. Celardo, M. Capone, C. Giannetti, and F. Borgonovi, *Towards High-Temperature Coherence-Enhanced Transport in Heterostructures of a Few Atomic Layers*, Phys. Rev. B **100**, 035126 (2019)

## 2018

A. Ronchi, P. Franceschini, L. Fanfarillo, P. Homm, M. Menghini, S. Peli, G. Ferrini, F. Banfi, F. Cilento, A. Damascelli, F. Parmigiani, J.-P. Locquet, M. Fabrizio, M. Capone, and C. Giannetti, *Ultrafast Orbital Manipulation and Mott Physics in Multi-Band Correlated Materials*, Proc. SPIE 10530, 105300V (2018)

**2016 (before PhD)**

G. G. Giusteri, P. Franceschini, and E. Fried, *Instability Paths in the Kirchhoff–Plateau Problem*, *J. Nonlinear Sci.* **26**, 1097 (2016).