

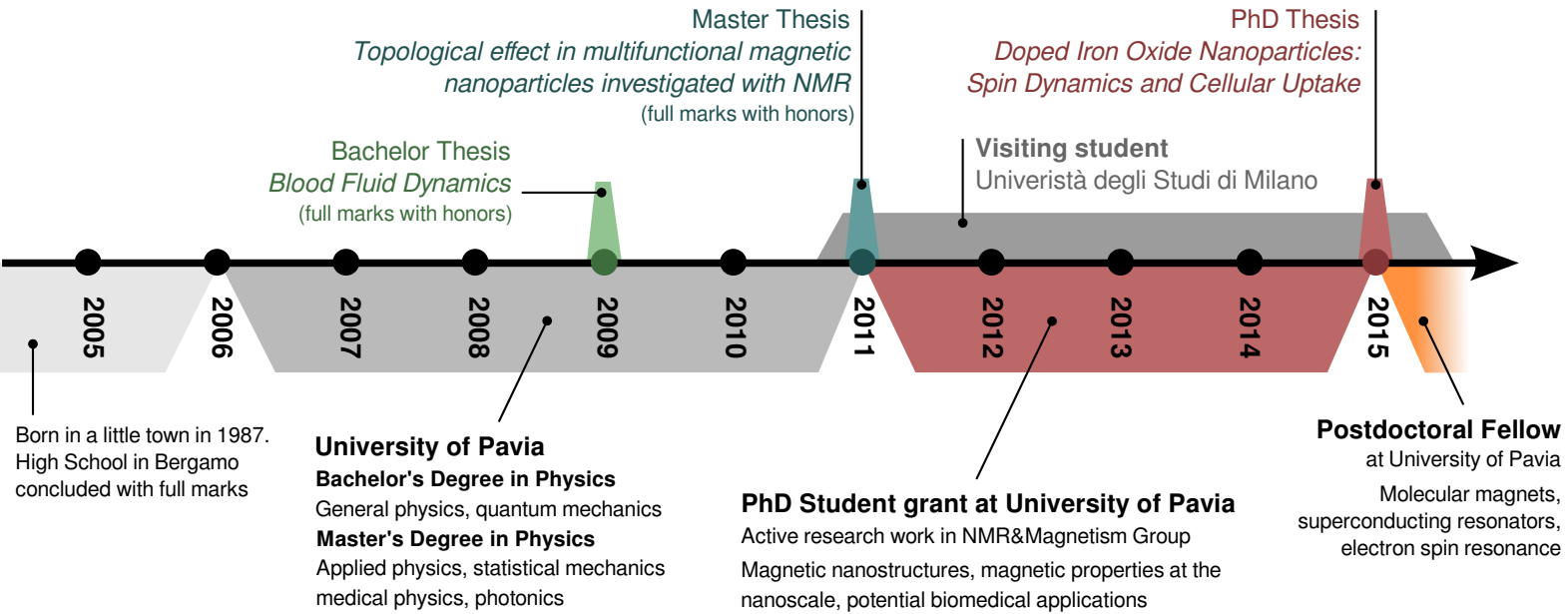


# Tomas Orlando

PhD, Experimental Physicist

**contact**

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## Lab Skills

I like to work both with hardware and software. After three years spent in a laboratory, I am used to work with customized setup and to face several technical problems regarding spectrometers, rf electronics and cryogenics

### Magnetic Resonance

Broadband NMR  
Fast Field Cycling  
Relaxometry  
MRI

### Magnetometry

SQUID  
Magnetic Fields

### Others

Cryogenics  
μSR  
EPR

### Software

Pulse Program  
OriginLab  
Matlab  
LabView

## Soft Skills

I'm at ease with technology and with any kind of software, both in Linux and in Windows

I love presenting my work. I like to create appealing visual presentation

Photography, design and digital graphics

I developed scientific writing ability, co-authoring 7 peer-reviewed publications

I've experience as lecturer for master class and as member of exam committee

## Research

I was actively involved in several research projects in Italy and Europe, collaborating with scientists belonging to different fields, like biology, chemistry and medicine

### Basic Physics in Magnetic Nanostructures

Magneto-plasmonic nanostructures, influence of doping in iron oxide nanoparticles

### Magnetic Nanoparticles for Biomedical Applications

Novel magnetic nanosystems for MRI contrast, magnetic hyperthermia and drug delivery

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**New Challenges in Molecular Nanomagnetism:**  
From Spin Dynamics to Quantum Information Processing