



Ciro Taranto

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Theoretical Physicist, transitioning to Data Science

Carreer

2015–now **Postdoc**

*Max Planck Institute for solid state
research,
Stuttgart*

2014–2015 **Postdoc**

2010–2014 **PhD** (*cum laude*)
Vienna University of Technology

- Performing independent research.
- Writing scientific papers.
- Presenting scientific results.
- International collaborations.
- Mathematical modeling.
- Developing codes for numerical simulations.
- Data analysis of numerical simulations.
- Managing different projects.
- Daily supervision of a PhD student (2015–now).
- Daily supervision of a Master student (until 2014).
- Teaching experiences.

Education

- 2008–2010 **Master in Theoretical physics**, *University of Bari*, Bari, 110/110 *cum laude*, awarded as best physics student of the year.
I study theoretical physics. I enjoy physics and mathematics.
- 2005–2008 **Bachelor in Physics**, *University di Bari*, Bari, 110/110 *cum laude*.
I study physics. I become familiar with physics and mathematics.
- 2000–2005 **High School**, *Liceo Scientifico O. Tedone*, Ruvo di Puglia, 100/100.
I become a critical thinker. I become passionate about science.

Personal Skills

- Currently studying Machine Learning.
- Curious and passionate about learning
- Determined.

Computer Skills

Python

My ideal working tool. I use numpy, matplotlib and, recently, pandas and scikit.

C++

My last two projects are written in C++ using boost and openMP.

Fortran

My first steps in computation were in Fortran. I used llapack and MPI parallelization.

Mathematica

I used Mathematica during my master, and still enjoy it.

git

I share work with my colleagues git.

Linux & iOS

LaTeX, Office

Command line is the way.

...and whatever else I might need to get the job done.

Charcter highlights

- Objective driven.
- Intuitive.
- Social and communicative.

Language Skills

Italian	Mothertongue
English	Proficient proficiency
German	Independent speaker
Spanish	Independent speaker

Scientific results

- Coauthor of 8 peer reviewed publications
- Active collaborations with more than 30 scientists from Europe, US, Japan and Russia
- Referee for Physical Review since 2012

Selected publications

- **arXiv:1307.3475** I combine two existing theories to propose a new method for correlated quantum systems. I started the implementation of the code in a two-weeks visit to Ekaterinburg.
- **arXiv:1112.5003** (*editor suggestion*) We compare model and experiment to reveal hidden properties of a system.

Interests

- Travelling, visited countries count: 37
- Sport: Marathon runner (personal best 3h 1m), climbing & bouldering, soccer
- Reading

Personal Details

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