



Ciro Taranto

Theoretical Physicist,
transitioning to Data Science

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Carreer

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|-----------|--|---|
| 2015–now | Postdoc,
<i>Max Planck Institute
for solid state research,
Stuttgart</i> | <ul style="list-style-type: none">○ Research in computational condensed matter.○ Scientifical writing.○ Presentation of scientific results.○ International collaborations. |
| 2014–2015 | Postdoc,
<i>Vienna University of Technology,
Vienna</i> | <ul style="list-style-type: none">○ Mathematical modeling and novel methods.○ Development of codes for numerical simulations.○ Data analys of numerical simulations.○ Managing different projects. |
| 2010–2014 | PhD, (cum laude),
<i>Vienna University of Technology,
Vienna</i> | <ul style="list-style-type: none">○ Daily supervision of a PhD student (2015–now).○ Daily supervision of a Master student (2012–2013).○ Teaching experiences. |

Education

- 2008–2010 **Master in Theoretical physics,** *University of Bari, Bari, 110/110 cum laude.*
2005–2008 **Bachelor in Physics,** *University di Bari, Bari, 110/110 cum laude.*
2000–2005 **High School,** *Liceo Scientifico O. Tedone, Ruvo di Puglia, 100/100.*

Personal Skills & Character Highlights

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|---|---|
| <ul style="list-style-type: none">○ Currently studying Machine Learning.○ Excellent mathematical and analytical skills.○ Fast and independent learner.○ Very good team worker... | <ul style="list-style-type: none">○ Objective driven.○ Very intuitive.○ Social and communicative.○ ...ready to play a lead role. |
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Computer Skills

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| Python | <i>My ideal working tool. I use numpy, matplotlib and, recently, pandas and scikit.</i> |
| C++ | <i>My last two projects are written in C++ using boost and openMP.</i> |
| Fortran | <i>My first steps in computation were in Fortran. I used llapack and MPI parallelization.</i> |
| Mathematica | <i>I used Mathematica during my master, and still enjoy it.</i> |
| git | <i>I share work with my colleagues using git.</i> |
| Linux & iOS | <i>Command line is the way.</i> |
| L^AT_EX, Office | <i>...and whatever else I might need to get the job done.</i> |

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.
- Awarded best physics student of the University of Bari for the academic year 2009/10

Selected publications

- **arXiv:1708.03539** I particularly enjoy this work since I lead and coordinated the hard work of the PhD student I supervise and of myself to the realization of the hard task suggested by my superior.
- **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, mostly fictional.

Personal Details

DOB 20th of February, 1987
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References available upon request.