



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, Germany.</i> | <ul style="list-style-type: none">● Research area: computational condensed matter.● Presentation of results: written & oral form.● Mathematical modeling & novel methods. |
| 2014 – 2015 | Postdoc,
<i>Vienna University of Technology,
Vienna, Austria.</i> | <ul style="list-style-type: none">● Numerical simulations:<ul style="list-style-type: none">○ Code developement.○ Data analysis.● Mentoring/daily supervision of:<ul style="list-style-type: none">○ a PhD student (2015 – now),○ a Master student (2012 – 2013).● Teaching experience. |
| 2010 – 2014 | PhD, (cum laude),
<i>Vienna University of Technology,
Vienna, Austria.</i> | |

Education

- 2008 – 2010 **Master in Theoretical physics,** *University of Bari, Bari, 110/110, (cum laude).*
- 2005 – 2008 **Bachelor in Physics,** *University of 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">● Approaching Machine Learning.● Excellent mathematical and analytical skills.● Very good team worker...● ...ready to play a lead role. | <ul style="list-style-type: none">● Quick and independent learner.● Very intuitive.● Exceptional communication skills.● Very social personality. |
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Computer Skills

Python
C++
Fortran
Mathematica
Git
Linux & iOS
L^AT_EX, Office

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

My last two projects are implemented in C++ with heavy use of boost and openMP.

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

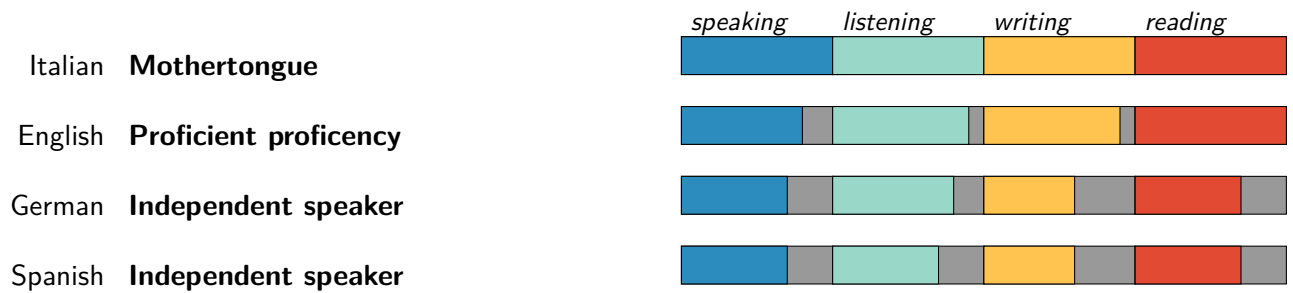
I used Mathematica during my masters, and still enjoy it.

I use git for version control.

I like GUIs but command line is my way.

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

Language Skills



Scientific results

- Coauthor of 8 peer reviewed publications.
- Active collaborations with more than 30 scientists from Europe, Russia, Japan and US.
- 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** This project, which I lead during the last year, is numerically and technically involved.
- **arXiv:1307.3475** Combining 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*) Comparing model and experiment to reveal hidden properties of some systems .

Interests

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

References

Available upon request.