

# Curriculum Vitae of Davide Napoletano

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Born: May 1, 1988—Milan, Italy  
Nationality: Italian

## Current position

*Master Student* in Theoretical Particle Physics, University of Milan

## Areas of specialization

Physics • Fundamental Particle Physics: Theory and Phenomenology

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## Education

2012-2014	MASTER DEGREE (expected in July) in Physics, University of Milan
Advisors	Prof. Stefano Forte, University of Milan and Prof. Stefano Pozzorini, University of Zürich.
Main Topic	We are testing both the theoretical and the numerical consistency, of an <i>improved</i> four-flavour factorization scheme. The numerical simulation are performed in the <b>Sherpa+OpenLoops</b> framework.
2008-2012	BACHELOR DEGREE in Physics, University of Milan
Advisor	Dr. Giancarlo Ferrera
Thesis' Title	Study of non-perturbative contribution to Vector-Boson production at Hadron colliders
Main Topic	We studied the effects, on the Drell-Yan process' $p_T$ spectrum, of the inclusion of a non-perturbative form factor for the intrinsic quark transverse momentum. This form factor was matched with both fixed order and re-summed calculation up to NLO+NNLL. Finally, comparison with the CDF and the D0 experiments were also provided.
Final Vote	95/110
2007	High School Diploma, Liceo Scientifico Salvador Allende, Milano.

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## Work Experiences

- 2011-present La Fabbrica SRL, <http://www.lafabbrica.net>. Position: Scientific Explainer  
I write and perform many scientific activities for students, from elementary school to high school.  
The main projects I am Involved in are:
- INCREDIBILE ENEL; We performed laboratories in which the main subject was to understand the principal forms of energy, the sustainability of the energy system and new technology (for example Hydrogen fuel cell). With the sponsorship of the partner ENEL-ENERGIA (Now discontinued)
  - NAVIGARE SICURI; We went into various Italian schools, to talk and discuss various Internet related issues, special focus was given to teenager's problems such as Cyber-Bullyism and On-Line-Accosting. Sponsored by TELECOM-ITALIA (Now discontinued)
  - ESPERIENZA.ITALO; This experience was, almost completely, written by me. We briefly discuss about environmental issues related to the current transportation system and then focus on high speed trains. How can they be sustainable, how are they made, how much of them can be re-used, are the question we try to give an answer to. Sponsored by NUOVO TRASPORTO VIAGGIATORI (NTV)
- 2009-2013 MUSEO DELLA SCIENZA E DELLA TECNOLOGIA DI MILANO, MUST. <http://www.museoscienza.org>.  
Scientific Explainer  
The principal areas I worked in, as a scientific explainer, were:
- Biotechnology & Genetics i.Lab
  - Nutrition i.Lab
  - Leonardo i.Lab
  - Energy & Environment i.Lab
  - Beyond the Ocean i.Lab
  - Guided tour to the Museum's historical collections, as the Leonardo da Vinci Gallery and the Transport Area.
  - The Enrico Toti Submarine
- 2005-2007 99 STUDIO, <http://www.99studio.it> as a Sound-Technician.  
2005-present I performed many other occasional and brief jobs, such as: Call-centre, Busboy and Warehouse-man. I also used to compose some musical pieces, mostly short one, by request.  
I also work with students needing tutoring in physics and mathematics.
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## Hobbies and Other Activities

My Hobbies include Sports, Cooking, Economy, Politics and Music (both playing and listening). During middle and high-school I played Basketball as a small forward in the Basket-Corsico Team. I enjoy very much cooking, especially sweets. I make my own *Panettone* starting from the natural powder, and other bakery specialties. I also took a class about Asian Cuisine. I have a subscription for THE ECONOMIST, as a source of economical and political world-news. During high-school I was elected three times in a row as the Students' representative. I've been playing Guitar since I was 12, and recently, about three years ago, I started playing the violin as well. I'm interested in almost every genre of music, from Classical to Electro-Music.

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## Computer Skills

- Operating Systems: Linux, Windows, MacOS
  - Languages: C/C++, Fortran, BASH,  $\text{\LaTeX}$
  - Libraries: ROOT, Cernlibs
  - Programs: Mathematica, Matlab, Sage, Reason, Adobe Audition, ProTools
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## Languages

Fluent in Italian and English.

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Last updated: March 1, 2014 •