



# Francesco Deangelis

## Curriculum Vitae

### Education

- 11/2020-present **PhD in Mathematics**, *Gran Sasso Science Institute*, L'Aquila, Italy.
- 10/2017-3/2020 **MSc Pure and Applied Mathematics**, *University of Rome Tor Vergata*, Rome.  
110/110 cum laude, GPA: 29.46/30.  
I was awarded a 2000€ prize for my master's thesis.  
Classes taken:
- Basics of Algebra (Abstract Algebra): 28/30
  - Introduction to Functional Analysis: 30/30 cum laude
  - Laboratory - Calculus (Numerical Methods for PDEs): 30/30
  - Basics of Geometry and Analysis (General Topology and Lebesgue integration): 28/30
  - Measure Theory: 30/30 cum laude
  - Statistical and Quantum Mechanics: 30/30
  - Differential Equations (PDEs): 28/30
  - Geometry 5 (Algebraic Topology): 30/30
  - Statistical Learning and High Dimensional Data: 30/30 cum laude
  - Machine Learning: 30/30 cum laude
  - Sobolev Spaces and Weak Solutions: 30/30 cum laude
  - Advanced Probability (with Measure Theory and Martingales): 30/30 cum laude
- 1/2017 **MSc Advanced Mechanical Engineering**, *Imperial College*, London.  
I received an offer of admission (89 offers were made for a total of 895 applicants, all required to have a predicted first-class degree to apply) but I did not accept it. I decided, instead, to study mathematics in Rome.

2014–2017 **BEng Mechanical Engineering**, *University of Rome Tor Vergata*, Rome.

110/110 cum laude

- I was the only one who graduated in Mechanical Engineering in July 2017, between all students who enrolled in the academic year 2014/2015
- Starting grade: 113 (max. 7 points for dissertation to be added)
- June 2017 - Ranked first in all the Engineering Department, having the highest GPA among all students who enrolled in the academic year 2014/2015 in an engineering degree (Mechanical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Internet Engineering, Energy Engineering, Management Engineering, Medical Engineering, Engineering Sciences).
- Some grades:
  - Mathematical Analysis 1 (12 ECTS)  
written: 33, oral: 30/30 cum laude
  - Mathematical Analysis 2 (9 ECTS)  
written: 30/30, oral: 30/30 cum laude
  - Geometry 1 (6 ECTS)  
written: 30/30, oral: 30/30 cum laude
  - Geometry 2 (Differential Geometry of Curves and Surfaces) (6 ECTS)  
oral: 30/30
  - Physics 1 (12 ECTS)  
written: 30/30, oral: 30/30 cum laude
  - Physics 2 (9 ECTS)  
written: 30/30, oral: 30/30
  - Chemistry (6 ECTS)  
written: 30/30, oral: 30/30 cum laude

2013–2014 **BSc Economics and Industrial Organization**, *The University of Warwick*, Coventry (UK).

I dropped out before the end of first year (April) because it was not challenging enough.

2008–2013 **Diploma di Maturità Classica**, *Liceo Classico Ugo Foscolo*, Albano Laziale (Rome), Italy.

100/100 cum laude

Highest in school, Top 0.7% of all Italian students, included in "Albo Nazionale Delle Eccellenze"(i.e. National Register of Excellent Students), published by Ministero dell'Istruzione e della Ricerca(i.e. Italian Ministry of Education, University and Research) (<http://www.indire.it/eccellenze/>).

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## Experience

2018–2019 **Tutor - Mathematical Analysis 1**, *University of Rome Tor Vergata*, Rome.

I was the tutor for the course 'Mathematical Analysis 1' of the undergraduate degree in Mathematics.

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## Computer skills

Basic Office

Web programming PHP, MySQL, AJAX, CodeIgniter, JQuery, JavaScript, HTML, CSS, Bootstrap, Python, Django, Jekyll

Scientific programming MATLAB, Python, C

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## Languages

Italian    Mothertongue  
English    TOEFL iBT: 115/120

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## Publications

Roberto Benzi, Michiel Bertsch, and Francesco Deangelis. A free boundary problem for binary fluids. *arXiv preprint arXiv:2005.05200*, 2020.