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/).

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.

Computer skills

Basic Office

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

Scientific programming MATLAB, Python, C

Languages

Italian	Mothertongue
English	TOEFL iBT: 115/120

Publications

Roberto Benzi, Michiel Bertsch, and Francesco Deangelis. A free boundary problem for binary fluids. *Interfaces Free Bound.*, 23(4):485–506, 2021. URL: `https://ems.press/journals/ifb/articles/3324283`, `doi:10.4171/IFB/462`.