

Andrea Di Biagio

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Research

Stable Facts, Relative Facts

ADB, C. Rovelli, [arXiv:2006.15543](#) (to appear in Foundations of Physics)

An experiment to test the discreteness of time

M. Christodoulou, ADB, P. Martin-Dussaud, [arXiv:2007.08431](#)

Quantum information and the arrow of time

ADB, P. Donà, C. Rovelli. [arXiv:2010.05734](#)

Education

2018-Current **La Sapienza University of Rome**

PhD Physics

- Thesis: *What can low energy quantum systems teach us about space and time?*
 - Supervisors: Prof Carlo Rovelli, Prof Giovanni Montani

2014 - 2016 **Imperial College London**

MSc Applied Mathematics

- Distinction 72%
- Project: *Asymptotic Self Similarity in the Mandelbrot Set*
 - Supervisor: **Dr Trevor Clarke**

2010 - 2013 **Imperial College London**

MSci Physics with Theoretical Physics

- First Class Honours 83.5%
- Project: *Spacetime from Causal Structure*
 - Supervisor: **Prof Fay Dowker**; collaborator: **Jack Jelfs**.
- Prizes for academic excellence:
 - 2013 [Ken Allen Prize](#)
 - 2011 [Gloucester Research Ltd Prize](#)

2009 - 2010 **King's College London**

BSc Physics (Year 1)

- Year average 89%
- Prizes for academic excellence:
 - Dillon prize for best grade in the first year Physics examinations.
 - Wilkins prize for best grade in the first year laboratories.

1997 - 2009: **Lycée Chateaubriand de Rome**

Baccalauréat Général Scientifique

Languages

Human

Italian
native

English
native

French
native

Spanish
intermediate

Finnish
beginner

Scientific Computation

2019 **NAND to Tetris part I Online Course**

2017 **Stanford University Machine Learning Online Course**

2017 **Udacity Deep Learning NanoDegree**

Python's numerical suite NumPy, pandas, Jupyter notebooks, TensorFlow.
fluent

Mathematica
fluent

GNU Octave, MATLAB
intermediate

C/C++
Intermediate

Text and Typeset

LaTeX
fluent

Markdown
fluent

Office Packages
fluent (Apple&Microsoft)

HTML, CSS
basics

Teamwork

2014- 2015 **Imperial College Environmental Society**

Vice President

Coordinated activities and negotiated with university administration.

2012-2013 **Imperial College Project Nepal**

Senior Team member

Responsible for younger team members in our expedition in rural Nepal, taught English as a second language to 8th grade students

Fall 2012 **Research Interfaces**

Team member

Compiled financial plan for tech startup, delivered elevator pitch for funding.

Other

Diving

- PADI Open Water certification at 12, Advanced Open Water at 14,
- PADI Rescue Diver certification in 2018,
- Underwater photography and filmmaking.

Activities

- Rock climbing, analog photography, plant-based cooking, gardening

Interests

- logic and foundations of mathematics; history of science and mathematics; religion and philosophy; science communication and science fiction.