# Andrea Di Biagio

# Research

## Stable Facts, Relative Facts

ADB, C. Rovelli, <u>arXiv:2006.15543</u> (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

ItalianEnglishFrenchSpanishFinnishnativenativenativeintermediatebeginner

#### **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

MathematicaGNU Octave, MATLABC/C++fluentintermediateIntermediate

# **Text and Typeset**

LaTeXMarkdownOffice PackagesHTML, CSSfluentfluent (Apple&Microsoft)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.