

# CURRICULUM VITÆ

## PERSONAL DATA

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## EDUCATION

PhD	CompSci, University of Oxford, 2015-18
MSc	Maths, University of Siena, 2011-13
BSc	Maths, University of Naples Federico II, 2008-11

## WORK

2019- Present	Private consulting
2017- Present	Head of research at <a href="https://statebox.org">statebox.org</a>
2018	Quantum Group Project Coordinator at Oxford University
2017	Project manager, Liquid Democracy division at <a href="https://swarm.fund">swarm.fund</a>

## PUBLICATIONS

Academic	Available online on <a href="#">DPLB</a> , <a href="#">arXiv</a> and <a href="#">Scholar</a> .
Blogging	<a href="#">Medium</a>

## RESEARCH INTERESTS

I work at the intersection between pure mathematics and its applications, making in particular use of applied category theory. At the moment I am working on describing consensus protocols using sheaf theory, on modelling cryptographic methods using higher categories and on using insights from Yoneda lemma to investigate computer security and penetration testing. I am also active in concurrency theory, focusing in particular on Petri nets. In the past I did research in categorical quantum mechanics and categorical natural language processing.

## MOST RECENT RECORDED APPEARANCES

Upcoming	Tutorial lecture, ACT2020
2020	<a href="#">Invited Talk</a> , ICGT2020
2020	<a href="#">Invited discussion</a> with Stephen Wolfram
2019	<a href="#">Invited Talk</a> , Devcon V
2019	<a href="#">Invited Talk</a> , ACT2019

2018 **Invited Talk**, QPL2018

#### TEACHING

2020 Category theory course for enterprises (held virtually)

2018 Category theory bootcamp at 2<sup>nd</sup> Statebox Summit

2017 - 2018 Teaching Assistant in Quantum Computer Science at Oxford University

#### ORGANIZED WORKSHOPS AND CONFERENCES

2020 Diagrammatic and Algebraic Methods for Business, part of ICGT2020, Bergen, Norway (postponed due to apocalypse)

2019 3<sup>rd</sup> Statebox summit, Berlin, Germany.

2018 2<sup>nd</sup> Statebox summit, Schoorl, Netherlands.

2017 1<sup>st</sup> Statebox summit, Zlarin, Croatia.

#### LANGUAGES

Fluent Italian, English, Neapolitan

Decent French, Spanish

Beginner Japanese, Russian

Ancient Latin, Greek, Middle Egyptian, Sumerian

#### COMPUTER SKILLS

Coding Functional languages (medium), Javascript (basic),  $\text{\LaTeX}$  (very good). I have extensive experience in pair programming (theoretician + developer), especially wrt formal verification.

Applications  $\text{\LaTeX}$  editors, Mathematica (basic), Word Processors (e.g. Microsoft Office, Libreoffice), AutoCAD (intermediate user), PCB designers, Photoshop.

O.S. Very experienced with Windows, Mac OS and Linux, especially security-oriented distributions (Kali and QubesOS)

June 26, 2020