



# Matteo Forconi

## WORK EXPERIENCE

03/2022 – 04/2022 Rome, Italy

**SUBSTITUTE TEACHER FULL-TIME IN PHYSICS AND MATHEMATICS** SCIENTIFIC HIGH SCHOOL J.F. KENNEDY

One month and half of teaching full-time with classes of the first, second, and third year.

2015 – CURRENT

**PRIVATE TUTORING FOR PHYSICS AND MATHEMATICS**

with students from the middle school to the first year of university

## EDUCATION AND TRAINING

2021 – CURRENT Rome, Italy

**PHD IN THEORETICAL COSMOLOGY** University of Rome La Sapienza

2018 – 2020 Rome, Italy

**MASTER'S DEGREE IN THEORETICAL PHYSICS** University of Rome La Sapienza

**Final grade** 110/110 cum Laude |

**Thesis** Constraining Inflationary Models through Primordial Gravitational Waves. Supervisor Prof. Alessandro Melchiorri, Co-Supervisor Dr. Eleonora Di Valentino.

2015 – 2018 Rome, Italy

**BACHELOR'S DEGREE IN PHYSICS** University of Rome La Sapienza

**Final grade** 110/110 cum Laude |

**Thesis** Sistemi di Numero Variabile di Particelle e Seconda Quantizzazione. Supervisor Prof. Guido Martinelli.

2010 – 2015 Rome, Italy

**DIPLOMA SECONDARY SCHOOL** Scientific High School J.F.Kennedy

**Final grade** 100/100

## LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s): **ENGLISH: CERTIFICATE IN ADVANCED ENGLISH (C1). OVERALL SCORE 196** |

**FRENCH: BEGINNER (STUDYING FOR A CERTIFICATE)**

## DIGITAL SKILLS

C | C++ | Python | R | Matlab | Mathematica | Latex | Fortran | JavaScript-CSS-HTML (week long introd. course) | Machine learning (Coursera, Stanford University) | Machine Learning and Deep Learning (Intro Course La Sapienza) | ROOT | Gnuplot | CosmoMC | CAMB | Cobaya | CLASS

## ● **ADDITIONAL INFORMATION**

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### **PUBLICATIONS**

[Do the Early Galaxies observed by JWST disagree with Planck's CMB polarization measurements?](#) – 2023

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Matteo Forconi, Ruchika, Alessandro Melchiorri, Olga Mena and Nicola Menci

[Towards a reliable calculation of relic radiation from primordial gravitational waves](#) – 2022

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William Giarè, Matteo Forconi, Eleonora Di Valentino and Alessandro Melchiorri. MNRAS 520, 2

[Cosmological Constraints on Slow Roll Inflation: an update](#) – 2021

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Matteo Forconi, William Giarè, Eleonora Di Valentino and Alessandro Melchiorri. PRD 104

### **NETWORKS AND MEMBERSHIPS**

2022 – CURRENT Sheffield

**Collaboration with the Cosmology Group of the University of Sheffield**

2022 – CURRENT

**Member of CosmoVerse Working Groups: Data Analysis in Cosmology and Fundamental Physics**

2021 – CURRENT INFN

**Part of the Theoretical Astroparticle Physics TASP Research Network**

2020 – CURRENT University of Rome La Sapienza

**Theoretical Cosmology Group of La Sapienza** Inflationary Theory, Primordial Gravitational Waves, Dark Energy, Data Analysis

2019 Rome

**Virgo Group of Rome** 6 months collaboration for exam project: 30/30 cum laude

### **CONFERENCES AND SEMINARS**

05/2023 – Avignon

**PONT: Progress on Old and New Themes in Cosmology**

04/2023 – Institut d'Etudes Scientifiques, Cargese, France

**Speaker at Ecole thématique du CNRS: Future Cosmology**

03/2023 – Galileo Galilei Institute, PhD school, Florence

**Theoretical Aspects of Astroparticle Physics, Cosmology and Gravitation**

09/2022 – TorVergata University, Rome

**Speaker at Astronomy, Astrophysics and Space Science PhD Workshop**

09/2022 – Corfù Summer Institute, Corfu

**Workshop on Tensions in Cosmology**

07/2022 – International Centre for Theoretical Physics, Trieste

**Summer School on Cosmology**

06/2022 – Scalea

**International School on Gravity, Cosmology and Mathematical Physics**

09/2021 – Center of Astrophysics and Gravitation (CENTRA), Lisbon

**X-EAG, 10th School on Astrophysics and Gravitation**

### **HONOURS AND AWARDS**

04/2023

**E-COST Grant – European Cooperation in Science and Technology** Short Term Scientific Mission Grant. Research Project: Models beyond LCDM

## **HOBBIES AND INTERESTS**

**Interests** I am a pianist; I published a novel. I love hiking and I am a basketball and volleyball player. I am training to become a skipper.

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**Ai fini della pubblicazione**

**F.to Matteo Forconi  
13 Luglio 2023**