

WORK EXPERIENCE

04/2021 – 07/2021 Rome, Italy

TUTOR AS LABORATORY ASSISTANT UNIVERSITY OF ROME "LA SAPIENZA"

Assistant in laboratory activities for bachelor degree in Physics, for instance laboratory of mechanics, optics and electromagnetism.

01/11/2022 – 01/03/2023 Rome, Italy

ASSISTANT PROFESSOR UNIVERSITY OF ROME "LA SAPIENZA"

Assistant Professor (Tutor) for the Physics exam at the Department of environmental sciences. (40 Hours)

01/09/2018 – 01/03/2019 Nocera Inferiore, Italy

ALTERNATE PROFESSOR HIGH SCHOOL "N. SENSALE"

Alternate Professor in Maths and Physics at high school for the first semester of the year (approximately 150 Hours)

EDUCATION AND TRAINING

10/2019 – 10/2021 Rome, Italy

MASTER OF SCIENCE IN THEORETICAL PARTICLE PHYSICS University of Rome "La Sapienza"

Field of study Theoretical Particle Physics **Final grade** 110/110 Cum Laude (with honours) |

Thesis Early Universe dynamics in the Axion-Inflaton model

10/2016 – 10/2019 Naples, Italy

BACHELOR OF SCIENCE IN PHYSICS University of Naples "Federico II"

Final grade 110/110 cum laude (with Honors) |

Thesis The Schroedinger's robin: A quantum mechanical interpretation of the magnetoreception. 01/11/2021 –

CURRENT Rome, Italy

PHD STUDENT University of Rome "La Sapienza"

Topic in physics beyond the Standard Model. Primordial Black Holes as Dark Matter candidate.

Field of study Theoretical Particle Physics, Cosmology

01/05/2023 – CURRENT Tallinn, Estonia

PHD STUDENT "VISITING PERIOD ABROAD" NICPB, Tallinn

Address Akadeemia tee 23, 12618 Tallinn, Tallinn, Estonia

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

ENGLISH B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● PUBLICATIONS

[Primordial non-gaussianity up to all orders: theoretical aspects and implications for primordial black hole models](#)

-2022

Published on Phys. Rev. D 107, 043520.

[One loop to rule them all: Perturbativity in the presence of ultra slow-roll dynamics](#)

– 2023 (Under review process)

[Primordial black holes in the curvaton model: possible connections to pulsar timing arrays and dark matter](#)

-2023

Published on JCAP 2023 (2023) 06, 057

[The recent gravitational wave observation by pulsar timing arrays and primordial black holes: the importance of non-gaussianities](#)

-2023 (Under review process)

CONFERENCES AND SEMINARS

31/05/2021 – 11/06/2021 – Abdus Salam International Centre for Theoretical Physics (ICTP)

Summer school on Particle Physics

14/03/2022 – 25/03/2022 – Galileo Galilei Institute for Theoretical Physics

School on theoretical Aspects of Astroparticle Physics, Cosmology and Gravitation

05/09/2022 – 08/09/2022 – Faculty of Physics - Universitat de València

CosmoLattice School

15/06/2022 – 17/06/2022 – University of Rome "La Sapienza"

EuCAPT workshop "Gravitational wave probes of black hole environments"

12/12/2022 – 14/12/2022 – Centro Universitario Padovano, Padova

Workshop "Messengers of the Early Universe: Gravitational Waves and Primordial Black Holes"

23/01/2023 – 25/01/2023 – Univesità degli studi di Pisa

Conference ""DarkCosmoGrav: New Frontiers in Particle Physics, Gravity, and Cosmology"" Poster Session.

03/04/2023 – 03/04/2023 – Online

Webinar " Journal Club INFN sezione Firenze e Pisa" Invited speaker. Title Talk " One loop to rule (out) them all: Primordial Black Hole Formation From Single-Field Inflation"

03/03/2023 – 03/03/2023 – Scuola Normale Superiore Pisa

Workshop "New Avenues in Strong Dynamics-- from the Early Universe to the Lab" Invited speaker. Title Talk: "Impact of non gaussianities on the primordial black hole abundance"

19/05/2023 – 19/05/2023 – NICPB, Tallinn

Seminar at NICPB, Tallinn Invited speaker. Title Talk: "Primordial Black Hole: One loop to rule (out) them all and non-gaussianity impact on their abundance"

5/07/2023 – 5/07/2023 – Online

Workshop, "Cosmic Whispers" Invited speaker. Title Talk: "The recent gravitational wave observation by pulsar timing arrays and primordial black holes: the importance of non-gaussianities"

DATI PERSONALI

trattamento dei dati personali

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196; Codice in materia di protezione dei dati personali".

Io sottoscritto dichiaro di essere consapevole che il presente curriculum vitae sarà pubblicato sul sito istituzionale dell'Ateneo, nella Sezione "Amministrazione trasparente", nelle modalità e per la durata prevista dal d.lgs. n. 33/2013, art. 15.

F.to Antonio Junior Iovino

12/07/2023