



Antonio Junior Iovino

About me: I am a passionate and meticulous PhD student in Theoretical Particle Physics at the University of Rome "La Sapienza". With a strong enthusiasm for my field of study, I am dedicated to expanding my knowledge and contributing to the advancement of scientific understanding. I possess excellent interpersonal skills and enjoy collaborating with others to tackle challenges, while also demonstrating the ability to work independently when needed.

● WORK EXPERIENCE

04/2021 – 07/2021 Rome, Italy

FELLOW (BORSISTA) 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

STUDENTS ASSISTANT 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 studyTheoretical Particle Physics **Final grade**110/110 Cum Laude (with honours) |

ThesisEarly Universe dynamics in the Axion-Inflaton model

10/2016 – 10/2019 Naples, Italy

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

Final grade110/110 cum laude (with Honors) |

ThesisThe 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 studyTheoretical Particle Physics, Cosmology

01/05/2023 – CURRENT Tallinn, Estonia

PHD STUDENT "VISITING PERIOD ABROAD" NICPB, Tallinn

AddressAkadeemia tee 23, 12618 Tallinn, Tallinn, Estonia

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

UNDERSTANDING			SPEAKING	WRITING
Listening	Reading Spoken		Spoken interaction production	

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

● DIGITAL SKILLS

Discrete knowledge of C++ | Discrete knowledge of Python programming language | Good knowledge of Mathematica

● ADDITIONAL INFORMATION

PUBLICATIONS

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

Published on Phys. Rev. D 107, 043520.

[One loop to rule them all: Perturbativity in the presence of ultra slow-roll dynamics](#) – 2023

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

Published on JCAP 2023 (2023) 06, 057

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"

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

27/05/2023