EUROPEAN CURRICULUM VITAE

PERSONAL INFORMATION

Name	**GIARNETTI ALESSIO**
E-mail	GIARNETTI.ALESSIO@GMAIL.COM
Nationality	Italian
Date of Birth	05/04/1995

SCHOOLS AND INTERNSHIPS

• June 2020

II Joint ICTP-Trieste/ICTP-SAIFR School on Particle Physics
San Paolo (held online), Brazil

• Aug-Sept 2018

Internship at Fermi National Accelerator Laboratory
Batavia, IL, USA

Project: Cosmic Rays Background Rejection for SBN Detectors

• Jul 2018

Particle Physics Summer School
Oxford University, Oxford, UK

EDUCATION

• 2019-

PhD in Physics
Roma Tre University, Rome, Italy

• 2017-2019

Master Degree in Physics
Roma Tre University, Rome, Italy

Final Score: 110/110 cum laude
Thesis: numu->nutau transition in DUNE and its role in sterile neutrino models

• 2014-2017

Bachelor Degree in Physics
Roma Tre University, Rome, Italy

Final Score: 110/110 cum laude
Thesis: Random Matrix theory and applications

• 2008-2014

Scientific High School Diploma
Liceo Scientifico Nicola Fiani, Torremaggiore (FG), Italy

Final Score: 100/100 cum laude

PUBLICATIONS

Sanjib Kumar Agarwalla, Sudipta Das, Alessio Giarnetti, Davide Meloni. Model-Independent Constraints on Non-Unitary Neutrino Mixing from High-Precision Long-Baseline Experiments, **JHEP07(2022)121**

Alessio Giarnetti, Davide Meloni. New sources of leptonic CP violation at the DUNE neutrino experiment. **Universe 2021, 7(7), 240**

Alessio Giarnetti, Davide Meloni. Probing source and detector NSI at the DUNE Near Detector. **Phys. Rev. D 104, 015027 (2021)**

Anish Ghoshal, Alessio Giarnetti, Davide Meloni. Neutrino Invisible Decay at DUNE: a multi-channel analysis. **Journal of Physics G: Nuclear and Particle Physics, 2021, Volume 48, Number 5**

Anish Ghoshal, Alessio Giarnetti, Davide Meloni. On the role of the nutau appearance in DUNE in constraining standard neutrino physics and beyond. **JHEP12(2019)126**

CONFERENCES

NuFact22, 30th July-6th August 2022, Salt Lake City, USA
Talk: Probing BSM models at future high-precision long baseline experiments

FLASY2022, 28th June-1st July 2022, Lisbon, Portugal.
Talk: Exploring BSM models at long baseline neutrino experiments

Neutrino 2022, 30th May-4th June 2022, Seoul, South Korea, held online.
Poster: Effects of BSM models at long baseline experiments

NuFact21, 5th-12th September 2021, Cagliari, Italy.
Talk: New sources of leptonic CP violation at the long baseline experiments

TAUP 2021, 26th August-3rd September 2021, Valencia, Spain, held online.
Poster: BSM sources of CP violation at future long baseline experiments

Neutrino 2020, 22nd June-2nd July 2020, Fermilab, Batavia (IL), USA, held online.
Poster: New approaches to the study of BSM models at DUNE Near and Far detectors

PRIZES

Enrico Persico Prize from Accademia dei Lincei for the best physics students in Rome (2019)

TEACHING

Member of the exam commissions for the courses of "Metodi Matematici per la FIsica" and "Fisica Teorica II" at the department of Mathematics and Physics of Roma Tre University (2021/2022)

"Supporto alla didattica" for the course "Fondamenti di Fisica (canale II)" at the department of Architecture of Roma Tre University (19/20, 20/21 and 21/22)

"Tutorato" for the course "Fisica Generale II" at the Physics degree course of the department of Mathematics and Physics of Roma Tre University (2020/2021)

"Supporto alla didattica" for the course "Istituzioni di Matematiche I (canale II)" at the department of Architecture of Roma Tre University (20/21 and 21/22)

"Tutorato" for the course "Matematica Generale" at the department of Business Administration of Roma Tre University (2020/2021)

MOTHER LANGUAGE	**ITALIAN**
OTHER LANGUAGES	**-PROFICIENT ENGLISH**

16/08/2022

Luogo e data……………………………

Firma leggibile