

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 Inteship 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: $\nu_{\mu} \rightarrow \nu_{\tau}$ 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	<p><i>Anish Ghoshal, Alessio Giarnetti, Davide Meloni.</i> On the role of the nutau appearance in DUNE in constraining standard neutrino physics and beyond. JHEP12(2019)126</p> <p><i>Anish Ghoshal, Alessio Giarnetti, Davide Meloni.</i> Neutrino Invisible Decay at DUNE: a multi-channel analysis. Journal of Physics G: Nuclear and Particle Physics, 2021, Volume 48, Number 5</p> <p><i>Alessio Giarnetti, Davide Meloni.</i> Probing source and detector NSI at the DUNE Near Detector. Phys. Rev. D 104, 015027 (2021)</p> <p><i>Alessio Giarnetti, Davide Meloni.</i> New sources of leptonic CP violation at the DUNE neutrino experiment. Universe 2021, 7(7), 240</p> <p><i>Sanjib Kumar Agarwalla, Sudipta Das, Alessio Giarnetti, Davide Meloni.</i> Model-Independent Constraints on Non-Unitary Neutrino Mixing from High-Precision Long-Baseline Experiments, arXiv:2111.00329</p>
CONFERENCES	<p>Neutrino 2020, 22nd June-2nd July 2020, Fermilab, Batavia (IL), held online. <i>Poster: New approaches to the study of BSM models at DUNE Near and Far detectors</i></p> <p>TAUP 2021, 26th August-3rd September 2021, Valencia, held online. <i>Poster: BSM sources of CP violation at future long baseline experiments</i></p> <p>NuFact21, 5th-12th September 2021, Cagliari. <i>Talk: New sources of leptonic CP violation at the long baseline experiments</i></p>
PRIZES	<p>Enrico Persico Prize from Accademia dei Lincei for the best physics students in Rome (2019)</p>
TEACHING	<p>“Supporto alla didattica” for the course “Fondamenti di Fisica (canale II)” for the department of Architecture of the Roma Tre University (2019/2020 and 2020/2021)</p> <p>“Tutorato” for the course “Fisica Generale II” for the Physics degree course of the department of Mathematics and Physics of the Roma Tre University (2020/2021)</p> <p>“Supporto alla didattica” for the course “Istituzioni di Matematiche I (canale II)” for the department of Architecture of the Roma Tre University (2020/2021 and 2021/2022)</p> <p>“Tutorato” for the course “Matematica Generale” for the department of Business Administration of the Roma Tre University (2020/2021)</p>
MOTHER LANGUAGE	ITALIAN
OTHER LANGUAGES	-PROFICIENT ENGLISH

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Luogo e data..... Roma, 04/11/2021

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