# Arturo de Giorgi



### PERSONAL DATA

PLACE AND DATE OF BIRTH: Parma, Italy | 14 August 1996

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#### ABOUT ME

I am a very energetic and active person. In the past, I followed many different activities simultaneously: university courses (mandatory ones and extras that I found interesting), sports, language courses, the development of a startup and, of course, free time. I learnt how to organize and plan efficiently my duties and to control and overcome stress. Working in a startup for more than six years and collaborating as a Tutor, has given me the possibility to learn how to work in a team and get along with people at work.

### **EDUCATION**

SEPTEMBER 2024 | PH.D. in PHYSICS

SEPTEMBER 2021 | at INSTITUTO DE FÍSICA TEÓRICA (IFT UAM/CSIC), Madrid

Advisor: Prof. Dr. Luca Merlo

DECEMBER 2020 | MASTER OF SCIENCE in PHYSICS

OCTOBER 2018 at LUDWIG-MAXIMILIANS-UNIVERSITÄT, Munich

Final Grade: 1.02/1.00

Thesis: "Dark Matter Production in Warped Extra-Dimensions" Advisor: Dr. Habil. Georg RAFFELT, Co-advisor: JProf. Stefan Vogl

JULY 2018 | BACHELOR OF SCIENCE in PHYSICS

SEPTEMBER 2015 | at UNIVERSITÀ DEGLI STUDI DI PADOVA, Padua

Final Grade: 109/110

Thesis: "Non-Abelian Anyons and Quantum Computation"

Advisor: Prof. Dr. Pieralberto MARCHETTI

GPA: 28.33/30

JULY 2015 | DIPLOMA

at Liceo Scientifico "Giacomo Ulivi", Parma

Final Grade: 100/100

# **SCHOOLS**

JUNE 2022 | DOCTORAL SCHOOL in INVISIBLES SCHOOL 22

at IJCLAB, Orsay, France

See: https://indico.ijclab.in2p3.fr/event/7686/timetable/20220620

MARCH 2021

Doctoral School in Theoretical Aspects of Astroparticle Physics,

**COSMOLOGY AND GRAVITATION** 

at Galileo Galilei Institute for Theoretical Physics, Florence, Italy

See: https://agenda.infn.it/event/24368/

### WORK EXPERIENCE AND INTERNSHIPS

MAY - AUGUST | RESEARCH INTERNSHIP 2021 | at ETH. Zurich

on Machine Learning and Phase Transitions in the group led by *Prof. Dr. M.K. Marinkovic* 

DECEMBER - NOVEMBER | STUDENT RESEARCH ASSISTANT

2019/2020 at Max Planck Institut für Physik, Munich

on Dark Matter Production in Warped Extra-Dimensions

supervised by JProf. Dr. S. Vogl

# TEACHING EXPERIENCE

OCTOBER - DECEMBER | TUTOR for Master course

2020 at Ludwig-Maximillian-Universität Müenchen

for Classical and Quantum Simulations of Physical Systems

held by Prof. Dr. M.K. Marinkovic

JULY - SEPTEMBER | TUTOR for Master course

2020 at Ludwig-Maximillian-Universität Müenchen

for Introduction to Lattice Gauge Theories

held by Prof. Dr. M.K. Marinkovic

OCTOBER - MARCH | TUTOR for Master course

2019/2020 at Ludwig-Maximillian-Universität Müenchen

for QUANTUM MECHANICS II held by Prof. Dr. V. Mukhanov

# SCHOLARSHIPS AND AWARDS

SEPTEMBER 2021 | DOCTORAL GRANT - EUROPEAN UNION'S HORIZON 2020 research

and innovation programme under the MARIE SKLODOWSKA CURIE GRANT

agreement No 860881-HIDDEN as EARLY STAGE RESEARCHER (ESR)

see: hiddeneu.eu

MARCH 2016 | Scholarship for highschool graduate students "Premio Gelati" for best

research project

#### LANGUAGES

ITALIAN: C2 - Mothertongue

ENGLISH: C1 - Fluent

GERMAN: B1 - Basic Knowledge SPANISH: A2 - Basic Knowledge

#### COMPUTER SKILLS

Basic Knowledge: HTML, CSS, PHP

Intermediate Knowledge: PHYTON, C++, FeynCalc, FeynRules, xAct

Advanced Knowledge: Mathematica, LATEX

#### **PUBLICATIONS**

1. J. Bonilla, A. de Giorgi, B. Gavela, L. Merlo, and M. Ramos, *The cost of an ALP solution to the neutral B-anomalies*, arXiv:2209.11247

- 2. A. de Giorgi and S. Vogl, Warm dark matter from a gravitational freeze-in in extra dimensions, arXiv:2208.03153
- 3. J. Alonso-Gonzalez, A. de Giorgi, L. Merlo, and S. Pokorski, Searching for BSM physics in Yukawa couplings and flavour symmetries, JHEP 05 (2022) 041, [arXiv:2109.07490]
- 4. A. de Giorgi and S. Vogl, Dark matter interacting via a massive spin-2 mediator in warped extra-dimensions, JHEP 11 (2021) 036, [arXiv:2105.06794]
- 5. A. de Giorgi and S. Vogl, *Unitarity in KK-graviton production: A case study in warped extra-dimensions*, JHEP **04** (2021) 143, [arXiv:2012.09672]

#### OUTREACH

1. A. de Giorgi, *Physics, following the breadcrumbs of our intuition*, February, 2022. [Online; posted 08-February-2022]

## Non-Scientific Activities

2022 - Today | MEMBER of IFT Equity, Diversity and Inclusion Committee.

see: EDI@IFT

JULY 2014 OCTOBER 2021 FOUNDER and CAO of Artupia

old website location: http://www.artupia.com

In 2014 I started working with two dear friends at a Startup, Artupia, on the algorithm side as CAO. All this has led to a solid group work, to learn new tools never used before for image creation and social management, to learn how to code in different programming styles and to learn the basics of marketing and design.

2012 - 2015 | MEMBER and EVENTS COORDINATOR of the Highschool Club Europeanclubeuropeo.

# REFERENCES

For references, please get in touch with:

1. Prof. Dr. Luca Merlo at Instituto de Física Teórica (IFT UAM/CSIC) Email: luca.merlo@uam.es

2. Prof. Dr. Stefan Vogl at Universität Freiburg Email: stefan.vogl@physik.uni-freiburg.de

Madrid, 06.10.2022 Arturo de Giorgi