

# Stefano Lanza

Theoretical Physicist, Ph.D.



## About me

I am a Theoretical Physicist, working in forefront research of String Theory and Quantum Gravity, employing Advanced Mathematics and Machine Learning techniques to uncover the mysteries of our Universe

## Personal

Name: Stefano  
Surname: Lanza  
(He/him)

Nationality: Italian

Born on September 18, 1992

## Areas of specialization

String Theory • Quantum Gravity • General Relativity • Differential Geometry • Data Science • Machine Learning • Deep Learning

## Interests

Philosophy • History of Science • Geopolitics

## Contacts

University email

DESY email

## Useful links

Webpage

LinkedIn

GitHub

INSPIRE-HEP

arXiv

## WORK EXPERIENCE

2023–current	<b>Research Assistant in Theoretical Physics and Machine Learning</b> University of Hamburg, Germany	
2020–2023	<b>Postdoctoral Researcher in Theoretical Physics</b> Utrecht University, the Netherlands	
2020	<b>Postdoctoral Researcher in Theoretical Physics</b> Harvard University, Cambridge, Massachusetts, USA	

## EDUCATION

2016–2019	<b>Ph.D. in Theoretical Physics</b> SPECIALIZATION: STRING THEORY • University of Padova, Italy Thesis: <i>Exploring the Landscape of effective field theories</i>	
2014–2016	<b>Master's Degree in Theoretical Physics</b> GRADE: 110/110 CUM LAUDE • University of Pisa Thesis: <i>Renormalizability and finiteness of nonlocal Quantum Gravity</i>	
2011–2014	<b>Bachelor's Degree in Physics</b> GRADE: 110/110 CUM LAUDE • University of Pisa, Italy Thesis: <i>Path integral formulation of density matrices</i>	

## CERTIFICATES

2023	<b>Python for Data Science and Machine Learning Bootcamp</b> , Udemy (25 hours)
2023	<b>Machine Learning Specialization</b> , DeepLearning.AI, Stanford University, Coursera (72 hours)
2023	<b>IBM Data Science Professional Certificate</b> , IBM, Coursera (156 hours)
2023	<b>Google Advanced Data Analytics Certificate</b> , Google, Coursera (168 hours)
2023	<b>Google Data Analytics Certificate</b> , Google, Coursera (186 hours)

## GRANTS

2020	A. Della Riccia Foundation Fellowship
2020	A. Gini Foundation Fellowship

## LANGUAGES

<b>Italian</b>	Proficient	mother tongue
<b>English</b>	Proficient	
<b>German</b>	Basic	
<b>Spanish</b>	Basic	

## PROGRAMMING

<b>L<sup>A</sup>T<sub>E</sub>X</b>	
<b>Mathematica</b>	
<b>MS Office</b>	
<b>python</b>	
<b>SQL</b>	
<b>R</b>	
<b>C++</b>	

## SOFT SKILLS

- Analytical and Critical Thinking
- Problem Solving
- Rational Decision-Making
- Independent Working
- Effective and Clear Communication
- Fast Learner
- Adaptability

## PUBLICATIONS

I have published 20 papers, with more than 400 citations. A full list of published papers can be found [here](#).

## TEACHING DUTIES

2021-2023	General Relativity Utrecht University
2024	Quantum Field Theory II University of Hamburg

## ORGANIZATIONAL DUTIES

I co-organized two international conferences ([website 1](#) and [website 2](#)), and series of seminars at Utrecht University.

## TALKS AND SEMINARS

I have given several talks in European and American institutions and at international conferences and workshops.