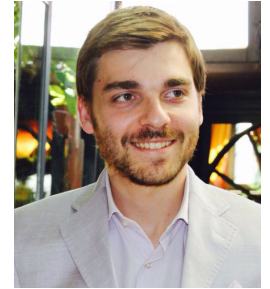


# Claudio Santonastaso - Curriculum Vitae

Updated on 5 Nov 2023

## Contacts

Name and Surname	<b>Claudio Santonastaso</b>
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## Education and training

Dates	From September 11, 2023 to September 15, 2023
Institution	Institute for Basic Science South Korea
Course	Nuclei in the Cosmos XVII - School
Dates	From September 18, 2022 to October 1, 2022
Institution	CERN - European Council for Nuclear Research
Course	Cern Accelerator School
Date	September 1, 2022
Qualification awarded	Teaching Habilitation - Physics
Exam	Ordinary Competition Enabling and Assigning Chair
Dates	From May 18, 2022 to May 22, 2022
Institution	ATOMKI is the Institute for Nuclear Research, Hungarian Academy of Sciences
Position	Visiting Researcher
Dates	From October 4, 2021 to October 8, 2021
Institution	CERN - European Council for Nuclear Research
Course	Geant4 Advanced Course 2021
Dates	From September 13, 2021 to September 20, 2021
Institution	Institute of Modern Physics, Chinese Academy of Sciences
Course	Nuclei in the Cosmos XVI - School
Date	September 1, 2021
Qualification awarded	Teaching Habilitation - Mathematics and Science
Exam	Ordinary Competition Enabling and Assigning Chair

Date	July 7, 2021
Institution	SOLGroup
Course	Training course for personnel involved in the use and handling of technical, pure and cryogenic gases
Date	June 30, 2021
Institution	INFN - National Institute of Nuclear Physics
Course	Computer Security - BASIC
Date	October 18, 2019
Institution	e-Campus Telematic University
Course	Teacher training course
Qualification awarded	Training credits for teaching qualification.
Dates	From July 22, 2019 to July 26, 2019
Institution	INFN Pisa with University of Pisa
Course	Rewriting Nuclear Physics Textbooks: one more step forward
Date	April 29, 2019
Institution	University of Salerno - Dep. of Physics
Qualification awarded	Master Degree in Physics
Thesis title	Change in ${}^7\text{Be}$ half-life in different environments
Graduation Marks	Full marks with honors
Dates	From July 24, 2017 to July 28, 2017
Institution	INFN Pisa with University of Pisa
Course	Rewriting Nuclear Physics Textbooks: Basic nuclear interactions and their link to nuclear processes in the cosmos and on earth
Dates	From January 23, 2017 to September 15, 2017
Institution	University of Naples 'Federico II' in Partnership with Apple
Course	Apple Developer Academy
Dates	From February 1, 2017 to April 23, 2017
Institution	Second University of Naples - Dept. of Mathematics and Physics
Course	National Instrument LabView
Date	September 26, 2016
Institution	Second University of Naples - Dept. of Mathematics and Physics
Qualification awarded	Bachelor's Degree in Physics
Thesis title	Feasibility study of measuring the half-life of ionized ${}^7\text{Be}$
Graduation Marks	Full marks with honors

Date	July 1, 2011
Qualification awarded	Scientific Studies High School Diploma
Graduation Marks	89/100

## Work Experience

Date	October 7, 2022
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Position	Volonteer
Event	European Researchers' Night
Subject	Scientific Populariser
Date	November 15, 2021
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Position	Post-Doc
Subject	Application and development of isotopic methodologies for the characterization of materials and devices within the KM3NeT experiment
Dates	From September 15, 2021 to October 8, 2021
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Course	Basic Mathematical Tools for Physics
Position	Mentor
Dates	From December 3, 2020 to June 7, 2021
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Course	Mechanics and Thermodynamics
Position	Mentor
Dates	From October 6, 2020 to October 30, 2020
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Course	Basic Mathematical Tools for Physics
Position	Mentor
Dates	From November 25, 2019 to June 5, 2020
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Course	Optics and Electromagnetism
Position	Mentor
Dates	From October 14, 2019 to November 14, 2019
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Course	Assistance and support for newly matriculated students in the Bachelor of Science in Physics in acquiring basic mathematical tools for general physics
Position	contract of cooperation

Dates	From November 1, 2019 to November 15, 2021
Institution	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Course	PhD course in Mathematchs, Physics and Engeneering Applications
Position	phdStud
Subject	Measurement of the cross section of $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ with ERNA at CIRCE-DMF
Dates	From June 1, 2019 to July 31, 2019
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Course	Realization of ERNA end of beamline detector stabilization system
Position	contract of cooperation
Dates	From October 1, 2018 to January 31, 2019
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Environmental Biological and Pharmaceutical Sciences and Technologies
Course	Physics
Position	Mentor
Dates	From September 29, 2018 to September 30, 2018
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Position	Volonteer
Event	European Researchers' Night
Subject	Scientific Populariser
Dates	From March 12, 2018 to July 31, 2018
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Environmental Biological and Pharmaceutical Sciences and Technologies
Course	Physics
Position	Mentor
Dates	From October 31, 2017 to October 31, 2019
Employer	Inputspace S.r.l.
Position	ICT Director
Subject	iOS Development
Dates	From September 29, 2017 to September 30, 2017
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Position	Volonteer
Event	European Researchers' Night
Subject	Scientific Populariser

Dates	From September 18, 2017 to November 15, 2017
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Course	Analytical Mechanics
Position	Mentor
Dates	From July 11, 2017 to October 31, 2017
Employer	System Management S.p.A.
Position	Mobile Developer
Dates	From June 1, 2017 to July 31, 2017
Employer	INNOVA
Position	tirocinio
Subject	Radiodation with Carbon 14
Dates	From December 13, 2016 to July 15, 2017
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Environmental Biological and Pharmaceutical Sciences and Technologies
Course	Physics
Position	Mentor
Dates	From September 29, 2016 to September 30, 2016
Employer	University of Campania "Luigi Vanvitelli" - Dept. of Mathematics and Physics
Position	Volunteer
Event	European Researchers' Night
Subject	Scientific Populariser
Dates	From October 1, 2015 to December 31, 2017
Employer	Lionbridge
Position	Internet Assessor (IT)
Subject	Rating Program
Dates	2010-2012
Employer	Various
Position	Waiter
Date	January 1, 2012
Position	Freelance iOS Developer

## Publications

**With referee**

- 2023** KM3NeT broadcast optical data transport system  
 Journal IOP Publishing  
 DOI 10.1088/1748-0221/18/02/T02001
- 2021** Determination of the  ${}^7\text{Be}(p, \gamma){}^8\text{B}$  cross section at astrophysical energies using a radioactive  ${}^7\text{Be}$  ion beam  
 Authors R. Buompane, A. Di Leva, L. Gialanella, A. D'Onofrio, M. De Cesare, J. G. Duarte, Z. Fulop, L. R. Gasques, Gy. Gyurky, L. Morales-Gallegos, F. Marzaioli, G. Palumbo, G. Porzio, D. Rapagnani, V. Roca, D. Rogalla, M. Romoli, C. Santonastaso, D. Schurmann  
 Journal Physics Letters B  
 DOI 10.1016/j.physletb.2021.136819
- 2021** Change in the  ${}^7\text{Be}$  half-life in different environments  
 Authors Santonastaso C., Buompane R., Di Leva A., Morales-Gallegos L., Itaco N., Landi G., Neitzert H. C., Rapagnani D., Gialanella L.  
 Journal IL NUOVO CIMENTO C. Vol. 44. Pag.1-4  
 DOI 10.1393/ncc/i2021-21075-8

## Conferences Contributions

- Conference Frontiers in Nuclear Astrophysics 2023  
 Organizer CeNAM (Michigan State University)  
**2023** Measurement of  ${}^{12}\text{C}(\alpha, \gamma){}^{16}\text{O}$  with the ERNA recoil separator  
 Type Poster
- Conference 11th European Summer School on Experimental Nuclear Astrophysics  
**2023** Recoil mass separators for nuclear astrophysics: The role of ERNA  
 Journal EPJ WEB OF CONFERENCES  
 DOI 10.1051/epjconf/202327501004
- Conference The 16th International Symposium on Nuclei in the Cosmos (NIC-XVI)  
 Journal EPJ WEB OF CONFERENCES  
 DOI 10.1051/epjconf/202226011006  
**2022** Measurement of the  ${}^7\text{Be}(p, \gamma){}^8\text{B}$  reaction cross section with the recoil mass separator ERNA
- Conference GIANTS-XI 2022  
**2022**  ${}^{12}\text{C}(\alpha, \gamma){}^{16}\text{O}$  measurement via inverse kinematic: the ERNA separator commissioning  
 Type Oral Presentation
- Conference Nuclear Physics in Astrophysics X  
**2022** Measuring the  ${}^{12}\text{C}(\alpha, \gamma){}^{16}\text{O}$  with ERNA: improvements and perspective  
 Type Poster

Conference	Fifth National INFN Nuclear Physics Meeting 2022 - National Laboratories of Gran Sasso
<b>2022</b>	ERNA commissioning for the $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$
Type	Oral Presentation
<b>2021</b>	Laboratorio Circe: ottimizzazione della dose all'operatore
Authors	G. Porzio, R. Buompane, S. Marrone, V. Festa, L. Gialanella, C. Santonastaso
Type	Proceeding Paper
<b>2021</b>	Verso la misura della sezione d'urto della $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ a basse energie
Conference	107th National Conference SIF (Italian Physical Society)
Type	Oral Presentation
Conference	106th National Conference SIF (Italian Physical Society)
<b>2020</b>	Influenza dell'ambiente sulla vita media del $^7\text{Be}$
Type	Oral Presentation
Conference	GIANTS-XI 2019
<b>2019</b>	Influencing $^7\text{Be}$ half-life
Type	Oral Presentation

## Committees

<b>2021</b>	Member of the Organizing Committee
Conference	GIANTS-XI 2022

## Scholarships

Dates	From September 11, 2023 to September 15, 2023
Conference	Nuclei in the cosmos school (Daejeon, Korea)
Organizer	Institute for Basic Science
Grant	Travel Grant and Conference Fee
Dates	From May 21, 2023 to May 26, 2023
Conference	Frontiers in Nuclear Astrophysics 2023
Organizer	CeNAM (Michigan State University)
Grant	Travel Grant and Conference Fee
Date	November 1, 2019
Course	PhD course in Mathematchs, Physics and Engeneering Applications
Grant	Scholarship

Dates	From July 22, 2019 to July 26, 2019
Institution	INFN Pisa with University of Pisa
Conference	Rewriting Nuclear Physics Textbooks: one more step forward (Pisa, Italia)
Grant	Travel Grant and Conference Fee
Dates	From June 4, 2018 to June 9, 2018
Conference	World Wide Developer Conference 2018 (San Josè, California, USA)
Organizer	Apple
Grant	Travel Grant and Conference Fee
Dates	From July 24, 2017 to July 28, 2017
Institution	INFN Pisa with University of Pisa
Conference	Rewriting Nuclear Physics Textbooks: Basic nuclear interactions and their link to nuclear processes in the cosmos and on earth
Grant	Travel Grant and Conference Fee
Dates	From June 5, 2017 to June 10, 2017
Conference	World Wide Developer Conference 2017 (San Josè, California, USA)
Organizer	Apple
Grant	Travel Grant and Conference Fee

## Awards

## Conferences

Dates	From May 21, 2023 to May 26, 2023
Conference	Frontiers in Nuclear Astrophysics 2023
Organizer	CeNAM (Michigan State University)
Dates	From October 22, 2022 to October 23, 2022
Conference	GIANTS-XI 2022
Organizer	Italian Group for Theoretical and Experimental Nuclear Astrophysics
Date	October 11, 2022
Conference	Nuclear Physics Mid Term Plan in Italy
Organizer	INFN - National Institute of Nuclear Physics
Dates	From September 4, 2022 to September 9, 2022
Conference	Nuclear Physics in Astrophysics X
Organizer	n_TOF and ISOLDE collaboration at CERN



Dates	From May 8, 2022 to May 12, 2022
Conference	Fifth National INFN Nuclear Physics Meeting 2022 - National Laboratories of Gran Sasso
Organizer	INFN - National Institute of Nuclear Physics
Dates	From September 21, 2021 to September 25, 2021
Conference	Nuclei in the Cosmos XVI
Organizer	Institute of Modern Physics, Chinese Academy of Sciences
Dates	From September 13, 2021 to September 17, 2021
Conference	107th National Conference SIF (Italian Physical Society)
Organizer	Italian Physical Society
Dates	From September 14, 2020 to September 18, 2020
Conference	106th National Conference SIF (Italian Physical Society)
Organizer	Italian Physical Society
Dates	From October 23, 2019 to October 25, 2019
Conference	GIANTS-XI 2019
Organizer	Italian Group for Theoretical and Experimental Nuclear Astrophysics
Date	June 29, 2019
Conference	Insider Dev Tour (Caserta)
Organizer	Microsoft
Dates	From June 4, 2018 to June 9, 2018
Conference	World Wide Developer Conference 2018 (San Josè, California, USA)
Organizer	Apple
Dates	From June 5, 2017 to June 10, 2017
Conference	World Wide Developer Conference 2017 (San Josè, California, USA)
Organizer	Apple

## Languages

Mothertongue	Italian
Other Languages	English
Date	June 1, 2009
Institution	Trinity
Qualification awarded	ISE III European Level C1

## Personal Skills and Competences

# IT

Operating Systems	macOS, Windows, Linux
Office softwares	Office suites (Microsoft, Google, LibreOffice)
Scientific Frameworks	COSY INFINITY, Geant4, ROOT Cern, Gnu Scientific Library, SRIM, LISE
Programming Languages	Objective-C, Swift, LabView, C, C++, Phyton, Java, HTML + CSS, Javascript, MATLAB, R
Programming Frameworks	ReactJS, GatsbyJS, React Native, Loopback IBM, Angular
Technologies and services	Docker, Firebase, Parse, AdSense

## User Interface and User Experience.

Software	AutoCAD, Sketch, Adobe XD, Photoshop, Pixelmator, GIMP
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## Project Management and Business

Concepts	SCRUM, MVP (Minimum Viable Product), Trademark Protection, Value Proposition Canvas
Software	Trello, Gantt, JIRA, Asana

## Arts

Dates	2002 - 2010
Employer	Caserta Academy of Music
Course	Jazz Piano
Software	Audacity, Garagement, Logic Pro, BandInABox

## Others

Licenses	Driving License B and A3
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