

Curriculum Vitae

Personal information

Name / Surname

Casalvieri, Christian

Scientific interests

Physics, Pure and Applied mathematics, Space Science, Didactics of Mathematics, Scientific Dissemination

Education and training

Dates

July 1992

Title of qualification awarded

High school leaving qualification in scientific studies, grade 60/60

Name and type of organization providing education and training

Liceo Scientifico Talete, Rome, Italy

Dates

May 2005

Title of qualification awarded

Master of science in Physics, grade 110/110

Thesis title

"Tidal coupling effects on gravitational radiation emission in binary systems" under the supervision of Prof. Valeria Ferrari

Name and type of organization providing education and training

Università degli Studi di Roma 'Sapienza', Rome, Italy

Dates

2019

Title of qualification awarded

Appointment as Expert in Mathematical Analysis

Name and type of organization providing education and training

Università degli Studi di Roma 'Sapienza', Rome, Italy

Dates

May 2023

Title of qualification

PhD in Mathematical Models for Engineering, Electromagnetism and Nanoscience

Thesis title

"Graphical recognition of the properties of derivatives and anti-derivatives: analysis of different strategies using an eye-tracker" under the supervision of Prof. Alessandro Gambini

Name and type of organization providing education and training

Department of Basic and Applied Engineering Sciences - Università degli Studi di Roma 'Sapienza', Rome, Italy

Principal publications

- 1) Casalvieri C., Ferrari V., Stavridis A., Gravitational signals due to tidal interactions between white dwarfs and black holes, MNRAS 365, 3, 929 (2006)
- 2) Casalvieri C., De Cicco V., 'Esercizi di Analisi Matematica II in campo reale ed in campo complesso', Ed. LaDotta, 2017
- 3) Capone, R., Casalvieri, C., Gambini, A., Spagnolo, C., 'L'Eye-tracking e le prove INVALSI: uno studio idiografico sui processi risolutivi di quesiti di Matematica'. In "I dati Invalsi: uno strumento per la ricerca", Franco Angeli, 2021
- 4) Capone, R., Casalvieri, C., Ferretti, F., Gambini, A., Spagnolo, C., 'Which strategies do students adopt when reading a text containing a mathematical problem? Initial results of an exploratory study with eye-tracking', In: QUADERNI DI RICERCA IN DIDATTICA. - ISSN 1592-4424 - (2022), pp. 1-13
- 5) Casalvieri, C., Gambini, A., Analysis of the solution of a Cauchy Problem using an Eye-Tracker, THE INTERNATIONAL JOURNAL FOR TECHNOLOGY IN MATHEMATICS EDUCATION, ISSN 1744-2710. - 29:4(2022), pp. 189-199
- 6) Casalvieri, C., Gambini, A., Viola, G., 'The concept of derivatives through eye-tracker analysis', PROCEEDINGS OF CSEDU 2023 - Volume 2 - (978-989-758-641-5), Prague, Czech Republic

7) Spagnolo, C., Casalvieri, C., Gambini, A. (2024). Different Processes for Graphical Recognition of Derivative of a Function: An Eye-Tracker Analysis. In: Yang, X.S., Sherratt, S., Dey, N., Joshi, A. (eds) PROCEEDINGS OF NINTH INTERNATIONAL CONGRESS ON INFORMATION AND COMMUNICATION TECHNOLOGY. ICICT 2024 2024. Lecture Notes in Networks and Systems, vol 1000. Springer, Singapore. <https://doi.org/10.1007/978-981-97-3289-0-44>

8) Casalvieri, C., Gambini, A., Spagnolo, C., Viola, G. (2024). Graphical Recognition of Antiderivatives: Analysis of Different Strategies Reflecting Level of Expertise Using Eye-Tracker Tool. In CSEDU (1) (pp. 202-215)

9) Casalvieri, C. (2024). La matematica della relatività. Volume 17 of the 'Mathematics' series published by RCS, included with Corriere della Sera and Gazzetta dello Sport newspapers

10) Casalvieri, C. (2024). La geometria differenziale. Volume 30 of the 'Mathematics' series published by RCS, included with Corriere della Sera and Gazzetta dello Sport newspapers

Language skills

Mother tongue

Other language(s)

*Self-assessment
European level^(*)*

English

Italian

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1 Proficient User	C1 Proficient User	B2 Proficient User	B2 Proficient User	C1 Proficient User

^(*) Common European Framework of Reference (CEF) level

Computer skills and competences

- Excellent LMS skills, particularly Moodle
- Good knowledge of Windows operating systems and Office software
- Good knowledge of LaTeX language
- Basic Fortran, Basic Matlab programming skills

Teaching skills and competences

Dates	2008 → 2010 - Tutor in Mathematical Analysis I at the Faculty of Engineering, University of Rome 'Sapienza', degree course in Management Engineering.
Dates	2010 → 2014 - Adjunct professor in Mathematical Analysis I at the Faculty of Engineering, University of Rome 'Sapienza', degree course in Management Engineering.
Dates	2014 → 2016 - Adjunct professor in Mathematical Analysis I at the Faculty of Engineering, University of Rome 'Sapienza', degree course in Aerospace Engineering.
Dates	2010 → 2018 and since 2023 - Adjunct professor in Mathematical Analysis II at the Faculty of Engineering, University of Rome 'Sapienza', degree course in Aerospace Engineering.
Dates	2015 → 2018 - Adjunct professor in Mathematical Analysis II at the Faculty of Engineering, University of Rome 'Sapienza', degree course in Clinical Engineering.
Dates	2016 → 2017 and since 2023 - Adjunct professor in Mathematical Analysis I at the Faculty of Engineering, University of Rome 'Sapienza', degree course in Energy Engineering.
Dates	2017 → 2018

- Adjunct professor in Mathematical Analysis I at the Faculty of Engineering, University of Rome 'Sapienza', degree course in Building Engineering Architecture.

Dates 2019 → 2020

- Tutor in Mathematics at the Latina campus of the Faculty of Economics at the University of Rome 'Sapienza'.

Dates 2018 → 2022

- Tutor in Mathematical Analysis I at the Faculty of Engineering, University of Rome 'Sapienza', degree course in Energy Engineering.

Dates since 2023

- Lecturer in preparatory mathematics courses for the Faculty of Economics at the University of Rome 'Sapienza'

Organisational skills and competences

- Great experience in conducting projects and groups, due either to training's activity in University.

Dates since 2017

- Creator of the database of questions assigned to OFA (Additional Educational Obligations) and selector of Advanced Course Mathematics tests for the Faculty of Civil and Industrial Engineering.

Dates since 2023

- INVALSI math test coder at the national level and ICILS test coder at the international level.

Dates November 2023 → July 2024

- Winner of a call for tenders from the University of Rome 'Sapienza' for the organisation and updating of OFA tests, mathematics pre-courses and self-assessment tests in Mathematical Analysis, Linear Algebra and Geometry.

Dates since 2024

- Creator and curator of the database of questions assigned to OFA (Additional Educational Obligations) for the Faculty of Economics.

Dates May 2025 → May 2026

- Winner of a call for tenders for teaching coordination relating to mathematics preparatory courses, remedial teaching and tutoring for basic mathematics subjects for degree courses in Civil and Industrial Engineering of the University of Rome 'Sapienza'

Dates June 2025 → February 2026

- Winner of a call for tenders from the Teaching Learning Centre (TLC) - Sapienza for collaboration on the Digital Education Hub (DEH) project and on the Workers' Employability Guarantee (GOL) project in cooperation with DISCoLazio.

Dates December 2025 → May 2026

- Winner of a call for tenders from the Teaching Learning Centre (TLC) - Sapienza for support for the development, advertising, and reporting of ALMA products.

Social skills and competences

- Great capacity of adapting myself to socially variegated sectors and of communication due to my cultural training.

Dates 2025

- Speaker at the conference "POT-PLS: School-University Transition" organized by the Faculty of Civil and Industrial Engineering on November 27, 2025

Other skills and competences

- Always eager to learn new things and acquire new skills

- Among my hobbies I specially prefer: reading, playing chess, walking in nature and every outdoors activity.