

## Personal information

Name / Surname

Nationality

Gender

**Gabriele, Peluso**

Italian

Male

## Work experiences

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

Dates

Occupation or position held

Main activities and responsibilities

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Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

From October 2022

PhD student

I work on a mathematical approach to topological insulator, now I am finding a topological invariant that can predict the existence of ground states in 1-dimensional topological insulator with symmetries.

Sapienza university of Rome, Piazzale Aldo Moro 5

Research

From 2020

Tutor

Teaching assistant to various courses detailed in the teaching section

Sapienza university of Rome, Piazzale Aldo Moro 5

Education

01/2019-01/2020

Technical assistant

Technical assistant to the It Laboratory of the Department of Mathematics

Sapienza university of Rome, Piazzale Aldo Moro 5

Education

05/2018-08/2018

Library assistant

Various library services, including the custody and study of secular tome

Sapienza university of Rome, Piazzale Aldo Moro 5

Education

2016-2020

Maitre

Lounge manager

Taste East fusion restaurant

HoReCa

## Publications

Dates

27/04/2023

Title

A  $Z_2$  invariant for chiral and particle-hole symmetric topological chains

Journal

Journal of Mathematical Physics

Co-Authors	Domenico Monaco
<b>Teaching and Tutoring</b>	
Dates	First semester, academy year 2023-2024
Courses	Calculus 1
Department	Economics
University	LUISS
Dates	First semester, academy year 2023-2024
Courses	Mathematics 1
Department	Economics
University	LUISS
Dates	First semester, academy year 2024-2025
Courses	Analysis 2
Department	Engineering
University	Sapienza University of Rome
Dates	First semester, academy year 2024-2025
Courses	Analysis 1
Department	Engineering
University	Sapienza University of Rome
Dates	First semester, academy year 2023-2024
Courses	Mathematics 1
Department	Economics
University	LUISS
Dates	First semester, academy year 2023-2024
Courses	Mathematics base course
Department	Management
University	Sapienza University of Rome
Dates	Academy year 2023-2024
Courses	Algebra 1
Department	Mathematics
University	Sapienza University of Rome
Dates	Second semester, academy year 2022-2023
Courses	Institutions of Mathematics
Department	Natural Sciences
University	Sapienza University of Rome
Dates	Second semester, academy year 2021-2022
Courses	Mathematical and Informatics methods for biology and biotechnology
Department	Biology and biotechnology Charles Darwin
University	Sapienza University of Rome
Dates	First semester, academy year 2021-2022
Courses	Linear Algebra, Analysis 1, Laboratory of Programming and Computing
Department	Mathematics
University	Sapienza university of Rome

Dates	Second semester, academy year 2020-2021
Courses	Geometry 1
Department	Mathematics
University	Sapienza university of Rome
Dates	First semester, academy year 2020-2021
Courses	Linear Algebra, Laboratory of Programming and Computing
Department	Mathematics
University	Sapienza university of Rome
<b>Events</b>	
Dates	26/05/2025-30/05/2025
Event	Mathematics of Condensed Matter Systems
Type	Conference
Place	Milano, Italy
Dates	10/02/2025-14/02/2025
Event	Mathematical Challenges in Quantum Mechanics
Type	Conference
Place	Gran Sasso Science Institute
Dates	02/06/2024-08/06/2024
Event	Symmetry and perturbation in quantum theory
Type	Conference
Place	Pula, Italy
Dates	27/05/2024-31/05/2024
Event	Spectral theory, Fourier analisys and PDE
Type	Summer school
Place	bizkaia aretoa, Bilbao
Dates	04/09/2023-16/09/2023
Event	Ravello Summer school on mathematical physics
Type	Summer school
Place	Villa Rufolo, Ravello
Dates	10/07/2023-14/07/2023
Event	Mathematical foundations of Quantum Machine Learning
Type	Summer school
Place	University of Trento
Dates	26/06/2023-30/06/2023
Event	Recent advances in quantum and statistical mechanics
Type	Summer School
Place	Hausdorff school for advanced studies in mathematics
Dates	8/02/2023-10/02/2023
Event	Trails in quantum mechanics and surroundings
Type	Conference
Place	SISSA, Trieste

## Education and training

Dates	2019-2022
Title of qualification awarded	Master Degree in mathematics
Principal subjects	Algebra and geometry applied to quantum physics
Name and type of organization providing education and training	Sapienza university of Rome, Piazzale Aldo Moro 5
Level in national classification	110/110 Cum Laude
Dates	2021
Title of qualification awarded	IELTS Qualification
Principal subjects	English language
Name and type of organization providing education and training	British Centre
Level in international classification	7.5/9
Dates	2020
Title of qualification awarded	Technological Translator
Occupational skills covered	Dialog between industry and research institution
Name and type of organization providing education and training	Institute for the Application of Computing Mauro Picone (Centre of National Research)
Dates	2016-2019
Title of qualification awarded	Bachelor Degree in Mathematics
Principal subjects	General mathematics
Name and type of organization providing education and training	Sapienza university of Rome, Piazzale Aldo Moro 5
Level in national classification	110/110 Cum Laude
Dates	2014-2016
Title of qualification awarded	Final year tests
Principal subjects	English language
Name and type of organization providing education and training	British Council
Level in international classification	A
Dates	2011-2016
Title of qualification awarded	Scientific Graduation Exam
Principal subjects	General High-School subjects
Name and type of organization providing education and training	Scientific High School Cavour
Level in national classification	68/100

## Personal skills and competences

Mother tongue

Other language

*Self-assessment European level<sup>(\*)</sup>*

Language

### Italian tongue

English

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
8,5/9	8,5/9	7/9	7/9	6,5/9

	( <sup>1</sup> ) Common European Framework of Reference (CEF) level
Artistic skills and competences	Amateur Piano Player, I attended one year of lectures at the Conservatory of Frosinone in 2011
Driving licence	B-type driving licence, obtained in 08/2016
<b>Additional information</b>	
Math competitions	2008-2010: Kangaroo maths competition and Fall games 2011-2016: Guidance as captain in the Italian maths team competition 2017-2020: Organizer at university team for the the Italian maths competition
Chess competitions	2011-2016: Participation at the provincial and regional chess team tournaments
Personal Interests	Role-playing games, karate, chess, gym

F.to (Gabriele Peluso)