

PhD Student in Physics

Andrea Gaspari


Date of birth: 23 Feb 1997

Nationality : Italian

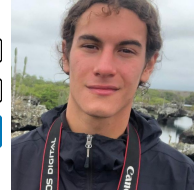
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EDUCATION

Alma Mater Studiorum - University of Bologna

Department of Physics and Astronomy, Italy

Bachelor in Physics: Sept 2017 – Oct 2020

– **Thesis's title:**

“*Quantum Error Correction and the Toric Code*”,

Supervisor: Davide Vodola,

Keywords: Quantum Information, QEC protocols, Toric Code.

– Final evaluation: **110/110**

– Date of graduation: 16/10/2020

Alma Mater Studiorum - University of Bologna

Department of Physics and Astronomy, Italy

Master in Theoretical Physics: Oct 2020 – May 2023

– **Thesis's title:**

“*Entanglement entropy in the hopping and SSH model*”,

Supervisor: Ravanini Francesco, Estienne Benoit,

Keywords: Entanglement entropy, CFT, gapped systems.

– Final evaluation: **110/110**

– Date of graduation: 26/05/2023

LOMA - University of Bordeaux

Laboratoire Ondes et Matière d'Aquitaine, France

PhD in Physics: Nov 2023 – Now

– **Thesis's title:**

“*Optomechanical oscillator networks for neuromorphic computation*”,

Supervisors: Pistolesi Fabio, Rémi Avriller,

Keywords: Optomechanical oscillators, neuromorphic computation.

LANGUAGE SKILLS

• **Italian:** Mother tongue

• **English:** C-1

• **Spanish:** B-2

• **French:** B-2

IT SKILLS

• **Programming languages:**

Python, C++

• **Graphic libraries:**

Basics of OpenGL

• **Data analysis and plotting:**

ROOT, gnuplot

• **Markup languages:**

L^AT_EX

• **Operating systems:**

Windows, Linux

ABROAD EXPERIENCES

LPTHE - Sorbonne University

Laboratoire de Physique Théorique et Hautes Énergies, France

Internship in Theoretical physics:

Sept 2022 – Feb 2023

– Supervisor: Estienne Benoit,

Keywords: Entanglement entropy, CFT, gapped systems

WORKSHOPS & SUMMER SCHOOLS

LPTHE - Sorbonne Université

Topological Quantum Phases of Matter Beyond Two Dimensions

Oct 2022

Alma Mater Studiorum - University of Bologna

Conformal Field Theory and Integrable Models

Sept 2023

Abdus Salam ICTP - Trieste

Frontiers of nanomechanics

Oct 2024