

Pietro Pelliconi

Curriculum Vitae

Personal Informations

Name Pietro Pelliconi
e-mail pietro.pelliconi@unige.ch
pietropelliconi@gmail.com
Nationality Italian
Website www.pietropelliconi.net

Grants Awarded

- 2025-2027 **SNSF Postdoc.Mobility Grant**
Project Title: *Holographic Horizons: Exploring stochastic dynamics and experimental simulations of holographic matter.*
Award: 128.000 CHF
- 2024 **SNSF Mobility Grant in Project**
Mobility grant to visit Princeton University within the project: *Order from chaos: taming quantum gravity with quantum chaos.* (project leader Prof. J. Sonner)
Award: 10.000 CHF
- 2015-2020 **Scuola Normale Superiore**
Scholarship covering full tuition, lodging and board.

Education

- 2021 - 2025 **Université de Genève**
PhD in Theoretical Physics.
Thesis title: *An Open Exploration of the Holographic Universe: from Entanglement Islands to Stochastic Peaks.*
Advisor: Prof. Julian Sonner.
- 2015 - 2020 **Scuola Normale Superiore**
Diploma di Licenza in Physics, 100/100 *cum Laude*.
Thesis title: *The breaking of supersymmetry: string realizations and implications in the low energy effective theory.*
- 2018 - 2020 **Università di Pisa**
M.S. in Theoretical Physics: 110/110 *cum Laude*.
Thesis title: *Integrable supergravity solutions and links with supersymmetry breaking in String Theory.*
Advisor: Prof. Augusto Sagnotti.
- 2015 - 2018 **Università di Pisa**
B.S. in Physics: 110/110 *cum Laude*.
Thesis title: *Instantonic solutions to the double well problem. Calculation of the ground state energy-splitting with instantons.*
Advisor: Prof. Stefano Bolognesi.

Invited Seminars and Posters

Invited Seminars

- 2024 *Gravity as a mesoscopic system*
Berkeley Center for Theoretical Physics, UC Berkeley
- 2024 *Gravity as a mesoscopic system*
High Energy Theory seminars, Princeton University
- 2024 *Gravity as a mesoscopic system*
Particle Theory Seminars, Cornell University
- 2023 *Open quantum systems and holography*
Group of Applied Physics, University of Geneva
- 2023 *Simulating Holographic Matter*
HologrAPh Kickoff Meeting, ETH Zürich (joint seminar with R. Baumgartner)
- 2023 *Black Holes as open quantum systems and unitary dynamics*
SwissMAP General Meeting, Les Diablerets
- 2023 *Simulating SYK - An approach using the Trotter Formula*
Swiss Cavity Meeting, Bern (joint seminar with R. Baumgartner)
- 2022 *Islands in AdS/ICFT*
SwissMAP General Meeting, Les Diablerets
- 2022 *Islands in AdS/ICFT*
Workshop Paths to QFT, Durham
- 2021 *Integrable Models and Supersymmetry Breaking in String Theory*
University of Bologna, Bologna

Posters

- 2023 *Holographic conformal interfaces and their bulk dual* - UniBO & INFN, Bologna
- 2023 *At the interface between top-down and bottom-up AdS/ICFT* - ICTP, Trieste
- 2022 *Sailing past the End of the World and discovering the Island* - Strings, Vienna
- 2022 *Sailing past the End of the World and discovering the Island* - Eurostrings, Lyon

Teaching

Teaching Assistant

- 2024 **Topics in Gravity**
Université de Genève - Doctoral course
Introduction to quantum gravity and AdS/CFT
- 2022 - 2023 **Quantum Mechanics II**
Université de Genève - Bachelor course
Advanced course in Quantum Mechanics
- 2023 **Quantum Field Theory II**
Université de Genève - Master course
Advanced course in Quantum Field Theory
- 2021 - 2022 **Mathematical Methods for Physicists II**
Université de Genève - Bachelor course
Course in the mathematical methods mostly used in physics. Topics included the theory of distributions, Green's functions, integration methods, statistics, probability and group theory

2021 **Group Theory for Physicists**

Université de Genève - Master course

Course in group theory and its applications to physics