

Lucía Cabrera



Nothing in life is to be feared, it is only to be understood.
Marie Curie

personal

Lucía Cabrera
nationality: Argentinian
born: 1991

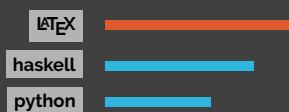
Areas of specialization

- Theoretical Physics
- Mathematical Physics
- String Theory • M-Theory

Languages

Spanish	C2	mother tongue
English	C2	
German	B2	
Italian	B2	

Programming



Other Interests

- Functional Programming
- Quantitative Research
- Renaissance Music • Violin
- Health & Fitness
- Philosophy • Languages

EDUCATION

2021 -

Physics Ph.D. Student

BALSEIRO INSTITUTE • Bariloche, Argentina

Thesis: Particle Physics, Quantum Gravity and Dualities in String Theory.

Supervisor: Prof. Gerardo Aldazabal **Co-supervisor:** Prof. Bobby Acharya



2019

Physics Licentiate Degree

NATIONAL UNIVERSITY OF ROSARIO • Rosario, Argentina

Thesis: Dual Holographic Description of Yang-Mills Plasmas **Supervisor:**

Prof. Martin Schvellinger (La Plata Institute of Physics - National University of La Plata). **GPA:** 9.53/10



PUBLICATIONS

In progress

On Capturing Stringy Features within a Field Theory Description

G. ALDAZABAL, E. ANDRÉS, L. CABRERA, M. MAYO .

On incorporating stringy features into a Quantum Field Theory and its hidden symmetries.

In progress

Branches of M-Theory/Heterotic string theory duals

B. ACHARYA, D. BALDWIN, L. CABRERA, K. NARAIN .

A classification of Heterotic string theories dual to M-theory compactified on a class of G_2 manifolds.

HIGHLIGHTED SCHOLARSHIPS & AWARDS

2023

STEP Fellowship

INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS • Trieste, Italy

Tri-annual international research collaboration fellowship.



2020

Highest GPA in Physics

PUNTO BIZ MAGAZINE • Santa Fe, Argentina

Highest GPA in a physics degree in the province of Santa Fe, Argentina.



2019

Doctoral Fellowship

NATIONAL SCIENTIFIC AND TECHNICAL RESEARCH COUNCIL • Argentina



2019

Summer Research Scholarship

BALSEIRO INSTITUTE • Bariloche, Argentina

Research internship. **Project:** Design and Implementation of Communication Servers for LAHN/ANDES.



2018

Scientific Vocations Stimulus Scholarship

NATIONAL INTER-UNIVERSITY COUNCIL • Argentina

Annual research fellowship. **Project:** Geometric Phases in Quantum Physics.



WORK EXPERIENCE

2025 -

AI Tutor - Math

Outlier AI.

2022 - 2024

Teaching Assistant

Balseiro Institute • Mathematics I & II.

2016 - 2020

Teaching Assistant

National University of Rosario • Mathematics I & II, Numerical Analysis.

2016

Museum Guide

Experimental Sciences Museum • Municipal Astronomy Complex of Rosario.

INVITED TALKS

2024

Invited Talk • Imperial College London, United Kingdom.

2024 **Contributed Talk** • Siembra - HoLAGrav 5th Young Frontiers Meeting, Online.

2024 **Contributed Talk** • 1st Online Conference for Women in Theoretical Physics from LATAM, Online.

RESEARCH VISITS

2024 **ICTP** - as STEP fellow, Italy.

2023 **ICTP** - as STEP fellow, Italy.

2022 **IPhT Saclay**, France.