

Paola Cappellazzi

Master's Student in Theoretical and Mathematical Physics

*Curriculum Vitae**

Max Planck Institute for Physics

Boltzmannstraße 8

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EDUCATION

Ludwig-Maximilians-Universität München and Technische Universität München

Elite Master Course in Theoretical and Mathematical Physics (M.Sc.)

10.2023-present

Munich, Germany

- Thesis: *Loop Corrections in the Effective Field Theory of Large Scale Structure*
- Student Representative 2024/25
- Expected graduation: April 2026

Università degli Studi di Trento

Bachelor of Science in Physics (B.Sc.)

09.2020-09.2023

Trento, Italy

- Honors student (Percorso di Approfondimento in Fisica - PAF)
- Thesis: *The GNS Theorem and the Algebraic Description of Quantum Systems*
- Final Grade: 110/110 cum laude

ACADEMIC RESEARCH EXPERIENCE

Max Planck Institute for Physics - Quantum Field Theory Group

Graduate Research for Master's Thesis

03.2025-present

Garching, Germany

- Advisors: Prof. Johannes M. Henn, Dr. Fabian Schmidt
- Research on Feynman integrals and multi-loop techniques, with a focus on applications within the Effective Field Theory of Large Scale Structure.
- 1 week-long visit to Prof. Marko Simonovic (Università degli Studi di Firenze, 11.2025)

Università degli Studi di Trento - Mathematical Physics Group

Undergraduate Research for Bachelor's Thesis

03.2023-09.2023

Trento, Italy

- Advisor: Prof. Nicolò Drago
- Research on C^* -algebras, Gelfand-Naimark(-Segal) Theorems, and C^* -algebraic description of physical systems.

WORKSHOPS, SCHOOLS AND CONFERENCES ATTENDED

Symbology@15 Conference

Max Planck Institute for Physics, Munich, Germany

12.2025

[\[Link\]](#)

• Presented my work in the gong show.

7th School of Analytic Computing in High Energy and Gravitational Theoretical Physics

Casa della Cultura di Atrani, Italy

10.2025

[\[Link\]](#)

Cosmological Connector

Max Planck Institute for Physics, Munich, Germany

10.2025

[\[Link\]](#)

Cambridge-LMU Cosmology Meeting

University Observatory Munich, Germany

09.2025

[\[Link\]](#)

UNIVERSE+ Online Seminar Series

Online

09.2024-07.2025

[\[Link\]](#)

Advanced School on Quantum Spacetime

University of Warsaw, Poland

09.2024

[\[Link\]](#)

Winter School on Physics of the Cell - CellPhys@TN2

Università degli Studi di Trento, Italy

01.2023

[\[Link\]](#)

*Last updated on February 8, 2026. References, transcripts and certificates are available upon request.

OUTREACH

Student Representative

09.2024-09.2025

Ludwig-Maximilians-Universität München

Munich, Germany

· One of two elected student representatives for the Theoretical and Mathematical Physics (TMP) cohort. Responsibilities included representing students on the steering committee, supporting prospective and current students and organizing cohort events.

TEACHING EXPERIENCE

Teaching Assistant - Mathematical Methods for Physics

10.2025-present

Ludwig-Maximilians-Universität München, Physics Department

Munich, Germany

· Weekly tutorials for Mathematical Methods lecture (B.Sc. Physics, 1st semester, Prof. J. von Delft); grading of exams and homework sheets.

Teaching Assistant - Mathematical Methods for Physics

10.2023-04.2024

Ludwig-Maximilians-Universität München, Physics Department

Munich, Germany

· Weekly tutorials for Mathematical Methods lecture (B.Sc. Physics, 1st semester, Prof. J. von Delft); grading of exams and homework sheets.

Teaching Assistant - Calculus 2

03.2023-06.2023

Università degli Studi di Trento, Physics Department

Trento, Italy

· Weekly tutorials for Calculus 2 lecture (B.Sc. Physics, 2nd semester, Prof. V. Agostiniani)

Teaching Assistant - Calculus 3

09.2022-12.2023

Università degli Studi di Trento, Physics Department

Trento, Italy

· Weekly tutorials for Calculus 3 lecture (B.Sc. Physics, 3rd semester, Prof. V. Agostiniani)

SELECTED SCHOLARSHIPS AND ACADEMIC AWARDS

Albo Nazionale delle Eccellenze - Ministero Italiano dell'Istruzione e del Merito

2019/20

High-school diploma award for outstanding performance.

[\[Link\]](#)

Dote Scuola Merito (Scholarship) - Regione Lombardia

2019/20

High-school diploma award for outstanding performance. Partial coverage of first year University fees.

[\[Link\]](#)