

Lorenzo Rossi

🏠 Pavia, PV, Italy.

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Summary

I am currently enrolled in a PhD research at the University of Pavia, during which I am studying Transverse Momentum Dependent Functions in different hadronic processes by combining theoretical tools with computational calculations.

During the master's degree in Theoretical Physics I learned several fundamental notions about Particle Physics, dynamic systems applied to Econophysics and data simulation through the Montecarlo Method.

Thanks to my collegiate experience and also of having been a representative of PhD students, I have gained various soft transversal skills.

Experience

GitHub Implementation

During my research period I implemented the NangaParbat and apfelxx platforms on GitHub, which are fitting frameworks aimed at the determination of the non-perturbative component of TMD distributions.

Tutoring Activities

University of Pavia, Italy

Tutor of the following courses:

2020–2023.

- “*Consolidation of basic knowledge of mathematics and physics*” at the department of Medicine Harvey in the academic years 2020/21, 2021/22 & 2022/23.
- “*Fisica II*” at the department of Electronic and Computer Engineering in the academic year 2020/21.
- “*Metodi informatici della fisica*” at the department of Physics in the academic year 2020/21.
- “*Laboratorio di LaTeX*” at the department of Mathematics in the academic year 2021/22.
- “*Complementi di Analisi Matematica 2*” at the department of Physics in the academic year 2022/23.

Website Manager

Vigevano PV, Italy.

Website management through the platform WordPress of this website:

Jul 2020–Present

<http://www.allievicairoli.it>

Educational Seminars

University of Pavia, Italy

Educational Seminar of the “Data Analysis 1” course at the department of Physics in the academic year 2022/23.

Seminars & Invited Talks

- “*Study of TMDs in DIS single jet-production*” at INT Electronic Workshop 21-80W, Fragmentation Functions 2021, November 1-5, 2021.
- “*Study of TMDs in DIS single jet-production*” at EIC User Group Early Career Workshop 2022, July 24-25, 2022.
- “*Extraction of Pion TMDs from Drell-Yan data*”, International Workshop on Hadron Structure and Spectroscopy 2022, August 29-31, 2022.

Education

PhD Student in Theoretical Physics

Department of Physics, University of Pavia.

2021-present

Theoretical study of hadronic physics, particularly about the Transverse Momentum Dependent functions in different kinematic processes. Also during my PhD I served as a representative of the PhD students on the Department Board.

Supervisor: Alessandro Bachetta.

Master Degree in Theoretical Physics

Department of Physics, University of Pavia, 110L/110.

2019–2021

Thesis: "Study of Transverse Momentum Dependent functions in DIS single-jet production"

Supervisor: Alessandro Bachetta, Co-Supervisor: Yiannis Makris.

Almo Collegio Borromeo

College Student, Almo Collegio Borromeo, Pavia. It is an institution committed to promote excellence of university education and its strict requirements are based on academic achievement and extracurricular activities.

2016–2021

Bachelor Degree in Physics

Department of Physics, University of Pavia, 110/110.

2016–2019

Skills

Expert: C, C++, Latex, Git/Terminal, WordPress.

Proficient: Python, Fortran, Mathematica, MonteCarlo simulation.

Languages

 **Italian:** Native

 **English:** Fluent

 **Spanish:** Basic