

Jiahao Miao

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🌐 [jiahaomiao.github.io](https://github.com/jiahaomiao) · 05/12/2001 · Chinese · Male

Education

Master's Degree in Physics, *University of Milan* ⓘ 09/2024 – Present
Average mark: 29.42/30 · EQF level 7 Milan, Italy

Supervisor: Giancarlo Ferrera

Key Coursework: Theory of Fundamental Interactions 1&2, Theoretical Physics 1&2, Geometry and Group Theory 2, Gravity and Superstring 1&2, Computational Physics Laboratory

Bachelor's Degree in Physics, *University of Milan* ⓘ 09/2021 – 07/2024

Final grade: 110/110 cum Laude (Avg: 29.44/30) · EQF level 6

Supervisor: Giancarlo Ferrera

Thesis: *Resummation of QCD large infrared logarithms for thrust distribution in e^+e^- annihilation*

Summary: Performed all order resummation in dQCD up to N³LL accuracy and computed analytical inverse Laplace transforms to compare Laplace-space vs. physical-space formulas.

Diploma Liceo Scientifico, *Liceo Scientifico Einstein* 09/2016 – 07/2021

Final grade: 100/100 · EQF level 4

Milan, Italy

Publications

U. Aglietti, G. Ferrera, W.-L. Ju, J. Miao *Thrust Distribution in Electron-Positron Annihilation at Full Next-to-Next-to-Next-to-Leading-Logarithmic Accuracy Including Next-to-Next-to-Leading-Order Terms in QCD*. PRL 134 (2025) 25 (arXiv:2502.01570). (2025)

Conferences and Seminars

- **Special Challenges in Quantum Chromodynamics** (Florence) 08/01/2026 – 09/01/2026
Link: <https://agenda.infn.it/event/48177/>
- **Resummation, Evolution, Factorization 2025** (Milan) 13/10/2025 – 17/10/2025
Link: <https://agenda.infn.it/event/43981/>

Technical Experience

HPC Administrator, *University of Milan* Milan, Italy · 07/2025 – Present

- **Administration & Maintenance:** Administer the cluster of the Milan Theory Group(40+ nodes, 2000+ CPU cores and 7+ TB of RAM), diagnosing hardware issues and managing software lifecycles to ensure optimal uptime.
- **User Management:** Provision user accounts, configure permissions, and enforce secure access control protocols for department researchers.

Additional Work Experience

Logistics & Customer Service Assistant, *Coop Supermarket* Milan, Italy · 07/2021 – Present

Managed 8-hour Sunday shifts focused on inventory restocking, warehouse logistics, and customer assistance.

Skills & Languages

Programming & Technical: Mathematica, C++, Python, Bash, HPC administrator, Slurm, Git

Languages: Italian (Native), Chinese (Native), English (Listening C1 , Reading C1 , Writing C1 , Spoken Production B2 , Spoken Interaction B2)

Additional Information

Driving Licence: B (14/05/2021 – 05/12/2031)