Matteo Nurisso, Ph.D. student

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Employment

2022 – present   **Scientific Programmer** Consiglio Nazionale delle Ricerche, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Turin.

Education

2018 – 2022   **Ph.D., SISSA** Astrophysics and Cosmology.
Thesis title: *Particles acceleration with Magnetic Reconnection in large scale MHD simulations*.
Supervisors: *Annalisa Celotti and Andrea Mignone*

2014 – 2018   **Master Degree , University of Turin** Astrophysics and Theoretical Physics.
Protocol number: 31-0001073043-0003006797
Thesis title: *Anisotropic Cosmic Ray transport in the galaxy with PLUTO*.
Supervisors: *Andrea Mignone and Nicolao Fornengo*

2011 – 2014   **Bachelor Degree , University of Turin** Physics.
Protocol number: 31-0001073043-0003006794
Thesis title: *The Heisenberg model and the Bethe Ansatz*.
Supervisor: *Marco Billó*

Research Publications

1   Nurisso, M., Celotti, A., Mignone, A., & Bodo, G. (To be submitted). Particles acceleration with magnetic reconnection in large scale mhd simulations: Ii. spectra update. *MNRAS*.

2   Nurisso, M., Celotti, A., Mignone, A., & Bodo, G. (2023). Particles acceleration with magnetic reconnection in large scale RMHD simulations: I. current sheet identification and characterization. *Monthly Notices of the Royal Astronomical Society*. 🔗 doi:10.1093/mnras/stad1348

3   Nurisso, M. (2018). *Anisotropic cosmic ray transport in the galaxy with pluto* (MSc thesis, Astrophysics and Theoretical Physics, University of Turin).

Skills

Languages   Strong reading, writing and speaking competencies for English and Italian.
Moderate reading, writing and speaking competencies for French.

Coding   c, c++, Python, Fortran

Misc.   Git, Github, IDL, Visit, Linux, Slurm, MPI, OpenMP, Cuda, Html, PLUTO code

   Magnetohydrodynamic simulations, Climate simulations, Academic research, LaTeX typesetting and publishing.

Miscellaneous Experience

Conferences and Hackatons

2023	**NextGEMS Cycle 3 Hackaton** (Madrid, Spain)
	Destination Earth Hackaton @ BSC (Barcelona, Spain)
2022	**7th Heidelberg International Symposium on High-Energy Gamma-Ray Astronomy** (Barcelona, Spain)
	Active Galactic Nuclei XIV: The Renaissance of Black Holes and Galaxies (Florence, Italy)
2020	**EuroScience Open Forum 2020** (Trieste, Italy)
2019	**International Conference of Physics Students 2019** (Cologne, Germany)
2017	**International Conference of Physics Students 2017** (Turin, Italy)

Teaching

2017 – 2018	**Tutor** of "Introduzione alla programmazione", University of Turin

Workshops

2022	**SCtrain training week**: Introduction to Parallel Programming
2021	**Machine Learning Lectures** Cluster of Galaxies IFPU group
2020	**Deep Learning Day** AI Student Society

Science Communication

2022	**Social media management** and **Personal Branding**
	Science Communication: the use of objects and easy experiments in face-to-face events
2021	**Science Communication** mini-course
2019	**Training and Sharing**: Best practices in Science Communication
	Science Dialogues: training course on Science Communication

Outreach

2020-2022	**Trieste Next** volunteer
2018 – present	**Sissa4Schools** volunteer
2018-2021	**SISSA Student Day** speaker
2017	**ICPS** volunteer (International Conference of Physics Students)
2013 – present	Vice-president of **Silviadizenzero**, active in Climate Science outreach