

# Matteo Nurisso, Ph.D. student

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## Education

- 2018 – 2022    **Ph.D. Candidate, 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.  
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.  
Thesis title: *The Heisenberg model and the Bethe Ansatz.*  
Supervisor: *Marco Billó*

## Research Publications

- 1 Nurisso, M., Celotti, A., Mignone, A., & Bodo, G. (Revised version submitted). Particles acceleration with magnetic reconnection in large scale mhd simulations: I. current sheet identification and characterization. *MNRAS*.
- 2 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*.
- 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**
- Misc.    **Git**, **Github**, **IDL**, **Visit**, **Linux**, **Slurm**, **MPI**, **OpenMP**, **Cuda**, **PLUTO code**
- MHD simulations**, **Academic research**, **LaTeX typesetting** and publishing.

## Miscellaneous Experience




### Conferences

- 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)






## Miscellaneous Experience (continued)

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### 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
- 2013 – present  Vice-president of **Silviadizenzero**, active in Climate Science outreach