

Alessandro Santini

PHD CANDIDATE IN GRAVITATIONAL PHYSICS

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Education

Ph.D. in Physics

MAX PLANCK INSTITUTE FOR GRAVITATIONAL PHYSICS

Potsdam, Germany

2023–present

- **Supervisor:** Dr. Jonathan Gair

Master's Degree in Astrophysics and Space Physics

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

Milan (MI), Italy

2021–2023

- **final degree grade:** 110/110 with distinction (cum laude)
- **Thesis:** Black-hole mergers in disk-like environments could explain the observed $q - \chi_{\text{eff}}$ correlation
- **Thesis advisors:** Prof. Davide Gerosa, Dr. Roberto Cotesta

Bachelor's Degree in Physics

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

Milan (MI), Italy

2018–2021

- **final degree grade:** 110/110 with distinction (cum laude)
- **Thesis:** Resolution of the Euler equations using the Athena++ code
- **Thesis advisor:** Prof. Bruno Giacomazzo

High School Diploma

LICEO SCIENTIFICO STATALE FEDERIGO ENRIQUES

Lissone (MB), Italy

2013–2018

- **Final degree grade:** 97/100

INTERNSHIPS

Erasmus+ Scholarship

JOHNS HOPKINS UNIVERSITY

Baltimore (MD), USA

Apr.–Jul. 2023

Skills

Programming Python (proficient) – Bash – Mathematica, C, C++ (basic)

Other tools Latex (proficient), Git, Microsoft Office suite

Languages Italian (Native), English (Fluent)

Publication record

1. **Santini, A;** Gerosa, D.; Cotesta, R.; Berti, E.

"Black-hole mergers in disklike environments could explain the observed $q - \chi_{\text{eff}}$ correlation", Phys. Rev. D 108, 083033

Talks, conferences & workshops

CONTRIBUTED TALKS

APS April Meeting

Minneapolis (MN), USA

Migration traps in AGN disks and hierarchical mergers as promising origin of the observed $q - \chi_{\text{eff}}$ correlation

Apr. 2023

Amaldi15

Online

Black-hole mergers in disk-like environments could explain the observed $q - \chi_{\text{eff}}$ correlation

July 2023

CONFERENCES/WORKSHOPS ATTENDED

Machine Learning in GW search: g2net next challenges

EGO, Cascina (PI), IT

28–31 Sep. 2022

ICERM - Numerical Relativity Summer School

Online

08–12 Aug. 2022

Gravitational Wave Open Data Workshop

Online

23–25 May 2022

Grants & Awards

2023 **DAP Travel Grant**, amount: \$ 600