Alessandro **Santini**

PHD CANDIDATE IN GRAVITATIONAL PHYSICS

Potsdam Science Park, Am Mühlenberg 1, D-14476 Potsdam, Germany

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Education

Ph.D. in PhysicsPotsdam, Germany

MAX PLANCK INSTITUTE FOR GRAVITATIONAL PHYSICS

2023-present

• Supervisors: Dr. Jonathan Gair, Prof. Dr. Alessandra Buonanno

Master's Degree in Astrophysics and Space Physics

Milan (MI), Italy

Università degli studi di Milano-Bicocca

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

Milan (MI), Italy

Università degli studi di Milano-Bicocca

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

Lissone (MB), Italy

LICEO SCIENTIFICO STATALE FEDERIGO ENRIQUES

• Final degree grade: 97/100

2013–2018

INTERNSHIPS

Erasmus+ Scholarship

Baltimore (MD), USA

JOHNS HOPKINS UNIVERSITY

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 $q-\chi_{\rm eff}$ correlation", Phys. Rev. D 108, 083033

2. Khalvati, H; **Santini, A**; Duque, F; Speri, L; Gair, J; Yang, H; Brito, R.

"Impact of relativistic waveforms in LISA's science objectives with extreme-mass-ratio inspirals", ArXiv Preprint

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 $q-\chi_{\mathrm{eff}}$ correlation

Apr. 2023

Amaldi15 Online

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

July 2023

CONTRIBUTED POSTERS

15th LISA Symposium

Dublin, Ireland

A flexible approach for the joint characterization of LISA instrumental noise and Stochastic Gravitational-Wave Backgrounds

July 2024

Grants & Awards_

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