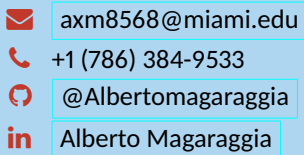


# ALBERTO MAGARAGGIA

Pronouns: He/him/his



## CONTACT



## RESEARCH INTERESTS

I am highly passionate about Astrophysics, Physics, and Cosmology. My main current interests include Black Holes, X-Rays Astrophysics, Dark Matter, and Gravitational Waves.

## SKILLS

### Programming

Python ●●●●●

### Software

LaTeX ●●●●●  
Office ●●●●●

### Personality

Curious Organized Empathetic  
Good Listener Open-minded  
Hard working Determined

## SUMMARY

I am a Ph.D. student in Physics at the University of Miami. I am currently working with Prof. Nico Cappelluti on two projects to study the Cosmic X-Ray Background and Primordial Black Holes. I got my Master's Degree in Astrophysics & Cosmology at the University of Padua, Italy. I wrote my Master's thesis with Prof. A. Raccanelli as a supervisor in which I investigated the Stochastic Gravitational Wave Background from Primordial Black Holes. Previously, I got my Bachelor's Degree in Astronomy at the University of Padua, Italy.

## EDUCATION

📅 08/2023 - Today Graduate program in Physics

📍 University of Miami

Current project: **"Combining eROSITA and Euclid Data to Study the Cosmic Background"**  
Supervisor: Prof. Nico Cappelluti. Co-supervisors: Dr. A. Kashlinsky, Dr. R.G. Arendt (LIBRAE team)

Current project: **"Tracing the Cosmic Imprint of Primordial Black Holes"**

Supervisor: Prof. Nico Cappelluti. Co-supervisor: Dr. G. Hasinger

📅 09/2019 - 10/19/2022 M.S. in Astrophysics & Cosmology, **110/110 With Honors**

📍 Padua University

Master's thesis: **"Stochastic Gravitational Wave Background from Primordial Black Holes"**

Supervisor: Prof. Alvise Raccanelli. Co-supervisors: Dr. Angelo Ricciardone, Dr. Sarah Libanore

📅 09/2016 - 10/25/2019 B.S. in Astronomy, **104/110**

📍 Padua University

Bachelor's thesis: **"Pair instability's impact on black holes' masses"**

Supervisor: Prof. Michela Mapelli. Co-supervisor: Dr. Sara Rastello

## POSTERS

📅 10/09/2023 AstroFlorida Meeting

📍 Florida Institute of Technology

**"Cross-correlating Euclid's Cosmic Infrared Background and eROSITA's X-Ray Background"**

## PROJECTS (public on GitHub)

Original works and projects written during my career:

- Master's thesis: **"Stochastic GW background from PBHs"** .
- Bachelor's thesis: "Pair instability's impact on black holes' masses". Italian version [here](#) .
- Theoretical Cosmology's report: **"Review on Primordial Black Holes"** .
- Astrophysics Laboratory's project: **"Analysis of the AGN of NGC2110"** .
- Other projects: Italian versions [here](#) .