




# Miriana Catalano

Date of birth: 17/12/1999


Nationality: Italian

## CONTACT

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## EDUCATION AND TRAINING

01/11/2024 – CURRENT Genova, Italy

● **PhD** University of Genova

Website <https://unige.it/> | Field of study Mathematics | Level in EQF EQF level 8 |  
Type of credits CFU | Number of credits 180

27/09/2022 – 25/09/2024 Genova, Italy

● **Master's Degree L-40** University of Genova

Website <https://unige.it/> | Field of study Mathematics | Final grade 110 e Lode |  
Level in EQF EQF level 7 | Type of credits CFU | Number of credits 120 | Thesis A  
multi-scale approach to image reconstruction in the STIX telescope

01/10/2018 – 15/03/2022 Palermo, Italy

● **Bachelor's Degree L-35** University of Palermo

Website <https://www.unipa.it/> | Field of study Mathematics | Final grade 106/110 |  
Level in EQF EQF level 6 | Type of credits CFU | Number of credits 180 |  
Thesis Differential Equations of Fluid Dynamics

## WORK EXPERIENCE

01/07/2023 – 31/07/2024 Genova, Italy

● **Postgraduate Research Scholarship of type "starting"** University of Genova

-Development of an algorithm for astronomical image reconstruction based on a multi-scale approach.

Business or Sector Education

## PROJECTS

01/12/2024 – CURRENT

● **CORNERSTONE**

- Ministry of University and Research / Projects of Significant National Interest (PRIN 2022 PNRR)
- Coordinator: Benvenuto Federico

## PUBLICATIONS

2024

● **[Multi-scale CLEAN for Fourier-based hard x-ray solar imaging](#)**

DOI 10.1088/1361-6420/ad91db

A. Volpara, M. Catalano, M. Piana and A. M. Massone, 2024, Inverse Problems 40 125017

## COMPUTER SKILLS

● **Programming languages and software**

- C
- Java
- Python
- Matlab

- IDL
- LaTeX

## CONFERENCES & SEMINARS

**22/05/2023 – 23/05/2023** University of Genova, Genova

### Flare Forecasting Workshop

Link [https://mida.unige.it/sites/mida.unige.it/files/2023-05/locandina\\_MIDA\\_SSW\\_2023\\_v8.pdf](https://mida.unige.it/sites/mida.unige.it/files/2023-05/locandina_MIDA_SSW_2023_v8.pdf)

**26/06/2024 – 27/06/2024** Polytechnic of Torino, Torino

### Meeting Alxtreme

Link <https://sites.google.com/inaf.it/aixtrememeeting2024/home>

**22/10/2024 – 24/10/2024** University of Applied Sciences Northwestern Switzerland (Fachhochschule Nordwestschweiz), Windisch

### EUI/STIX Workshop

Link <https://sites.google.com/view/eui-stix-workshop-oct-2024/home?authuser=0>

**19/11/2024 – 19/11/2024** University of Genova, Genova

### Platforms for single cell optogenetics on in-vitro neuronal cultures

Link [https://mida.unige.it/it/seminar\\_mida\\_zaccaria](https://mida.unige.it/it/seminar_mida_zaccaria)

**06/12/2024 – 06/12/2024** University of Genova, Genova

### Data-optimized models for reconstruction in Magnetic Particle Imaging using realistic magnetic fields

Link [https://mida.unige.it/it/seminar\\_mida\\_wolfgang](https://mida.unige.it/it/seminar_mida_wolfgang)

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Italian

**Other language(s):**

English

**Listening** B1

**Spoken production** B2

**Reading** C1

**Spoken interaction** B2

**Writing** B2

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*Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user*

## DRIVING LICENCE

**Driving Licence:** B