

# Nicolò Massari | Resume

A hitchhiker of the cosmos

## Links

[massarin.org](https://massarin.org)  
[github](#) | [linkedin](#)

## Contact

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Marseille, France


## Experience

 Research Software Engineer - [Global Health Engineering, ETH Zürich](#) Mar. 2025 - Nov. 2025

- \* Open and FAIR science development for research data publishing
- \* Developed audio transcription and speaker diarisation software for ETH's cluster
- \* Skills: Python, CI/CD, Git | [ghe\\_transcribe](#)
- \* Skills: R, Git | [fairenough](#)

 Simulations Software Engineer - [ARIS - Nautilus Project](#) Oct. 2024 - Nov. 2025

- \* Built an autonomous underwater vehicle for exploration of Saturn's icy moons
- \* Contributed to simulations, controls and CI/CD development
- \* Skills: Python, ROS 2, Gazebo, Git | [dave](#)

 University Teaching Assistant - ETH Zürich Sep. 2023 - Jan. 2025

- \* Conducted weekly university classes to 30+ students of Analysis I and II


 Tour Guide - [Detours Zürich](#) Aug. 2024 - Oct. 2024

- \* Developed public speaking and time management skills

 Design Thinking Coach - [PBLabs, ETH Zürich](#) Aug. 2023 - Oct. 2023

- \* Applied Design Thinking methodologies to problem-solving workshops

## Education

 MSc Computational Cosmology and Astrophysics - Zurich, Switzerland Sep. 2022 - Jun. 2024

- \* Thesis: Implemented a novel 2D inference tool using physics informed Gaussian Processes and Monte Carlo Markov Chain. Developing a field level inference auto differentiable pipeline in JAX.
- \* Project: Simulated k-essence models of dark energy with different small sound speeds with the [gevelution](#) code
- \* Skills: Python, Slurm, Git, LaTeX | [cosmogp](#)

 BSc Physics - Bristol, UK Sep. 2021 - Jun. 2022

- \* Erasmus+ grant for an exchange year in Bristol

 BSc Physics - Bologna, Italy Sep. 2019 - Jun. 2022

- \* Project: Developed a simulation of infectious disease spread on a grid following the SIR model
- \* Skills: C++, Bash, Git | [board\\_game](#)

## Languages

Italian C2 | English C1 | German A2

## Skills

Python | C++ | CI/CD | Git | Bash | ROS 2 | Gazebo | LaTeX