

# Nicolò Massari | Resume

A hitchicker of the cosmos

## Links

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

## Contact

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Marseille, France

## Experience

 <b>GHE</b>	Research Software Engineer - <a href="#">Global Health Engineering, ETH Zürich</a>	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   <a href="#">ghe_transcribe</a>		
* Skills: R, Git   <a href="#">fairenough</a>		
 <b>aris</b>	Simulations Software Engineer - <a href="#">ARIS - Nautilus Project</a>	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   <a href="#">dave</a>		
 <b>ETH</b>	University Teaching Assistant - ETH Zürich	Sep. 2023 - Jan. 2025
* Conducted weekly university classes to 30+ students of Analysis I and II		
 <b>Ü</b>	Tour Guide - <a href="#">Detours Zürich</a>	Aug. 2024 - Oct. 2024
* Developed public speaking and time management skills		
 <b>PBLabs</b>	Design Thinking Coach - <a href="#">PBLabs, ETH Zürich</a>	Aug. 2023 - Oct. 2023
* Applied Design Thinking methodologies to problem-solving workshops		

## Education

 <b>ETH</b>	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 <a href="#">gevelution</a> code		
* Skills: Python, Slurm, Git, LaTeX   <a href="#">cosmogp</a>		
 <b>BSc Physics</b> - Bristol, UK		Sep. 2021 - Jun. 2022
* Erasmus+ grant for an exchange year in Bristol		
 <b>BSc Physics</b> - 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   <a href="#">board_game</a>		

## Languages

Italian C2 | English C1 | German A2

## Skills

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