

Luca Giunti, Ph.D.

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Luca Giunti is a Scientific Software Developer (7+ yrs of experience) currently working at the Global Coastal Ocean (GOCO) division of the Centro euro-Mediterraneo per i Cambiamenti Climatici (CMCC).

He holds a Ph.D. in Physics of the Universe from Université Paris Cité (2021) and a Master's degree in Theoretical Physics from the University of Torino (2018). During his Ph.D. and PostDoc at CNRS, he developed and validated GammaPy, an open-source Python package for Gamma-Ray Astronomy. At CMCC, he designs and develops software solutions for the European Digital Twin of the Ocean (EDITO) Horizon programme, advancing ocean modeling for the European community.

CAREER

Software Developer – Junior research associate *Aug 2023 – Present*
At CMCC (Centro euro-Mediterraneo per i Cambiamenti Climatici), Lecce (Italy)

- Project maintainer and technical lead for the SURF project in the [EDITO EU Horizon programme](#)
- Containerization of scientific applications and deployment on multiple cloud-hpc infrastructures (EDITO, CINECA G100,)
- Lecturer at the international [COMPASS-Philippines course](#) (part of [CoastPredict UN Framework](#))
- Scientific software development for ocean forecasting applications

PostDoc researcher – High Energy Astrophysics *Dec 2021 – Dec 2022*
At CNRS (Centre National de la Recherche Scientifique), Paris (France)

- Active developer of [GammaPy](#), a Python package recognized with the [Jury Prize](#) at the 2022 Open Science Awards for Open-Source Research Software
- Hands-on session instructor for GammaPy at [CTAC international meeting](#) (Bologna, Italy)
- Advanced scientific data analysis, teaching, mentoring and theses supervision

Ph.D. – Physics of the Universe *Nov 2018 – Nov 2021*
At CEA Paris-Saclay & Université Paris Cité, Paris (France)

- Thesis: [The Galaxy beyond TeV energies with H.E.S.S. and CTA](#)
- First author publications: [HESS Collaboration 2021](#), [Giunti et al. 2022](#), [CTA Consortium 2023](#)
- International conference speaker (selected): [ICRC-2021](#), [9th Fermi Symposium](#), [Gamma-2022](#)

Master of Science – Theoretical Physics (110L/110) *Torino (Italy), Dec 2015 – Oct 2018*

International study program – Erasmus+ *Valencia (Spain), Sep 2016 – Apr 2017*

Bachelor of Science – Physics (110L/110) *Torino (Italy), Dec 2012 – Oct 2015*

COMPETENCES & STRENGTHS

Python | Git | Docker | Conda | Jupyter | Linux | CICD (GitHub Actions)
Shell scripting | Singularity | Cloud & HPC | Machine Learning | DevOps | Kubernetes

Problem solving | Continuous learning | Time & Project mgmt. | Communication

LANGUAGES

Italian (Native) | English (Advanced) | Español (Fluent) | Français (Fluent)