

PERSONAL INFORMATION **Alessandro Veutro**

EDUCATION

November 2022 – Present **Ph.D. student in Physics**

Physics Department, Sapienza University of Rome

Thesis project: , supervisor Prof. Irene Di Palma

September 2020 - September 2022 **Master's Degree in Physics**

Physics Department, Università degli Studi di Milano

Thesis title: "Investigating the past activity of the Milky Way through cosmogenic geological signatures.", supervisor Prof. Lorenzo Caccianiga

Grade: 110/110 cum laude

September 2017 - September 2020 **Bachelor's Degree in Physics**

Physics Department, Università degli Studi di Milano

Thesis title: "Modellizzazione della propagazione di raggi cosmici di altissima energia prodotti da magnetar Galattiche", supervisor Prof. Lino Miramonte

Grade: 110/110 cum laude

September 2012 - July 2017 **High school diploma**

Liceo Scientifico Statale G.Falcone e P.Borsellino Arese (MI)

Grade: 91/100

INVITED TALKS

- "Status of the online analysis platform", KM3NeT collaboration meeting, Louvain-La-Neuve (Belgium), 2025
- "KM3NeT Online Framework", KM3NeT bootcamp, Erlangen (Germany), 2024
- "Hunting neutrinos under the sea with KM3NeT", INFN young researchers, Physics Department, Sapienza University of Rome (Italy), 2024
- "ARCA GNN applications", KM3NeT collaboration meeting, Texel (Netherlands), 2024
- "Hunting neutrinos under the sea with KM3NeT", Ph.D. students' seminars, Physics Department, Sapienza University of Rome (Italy), 2024
- "Online event reconstruction and classification in KM3NeT", Marcel Grossman Meeting 2024, Pescara (Italy), 2024

CONTRIBUTED TALKS

- "Perspectives for CCSNe detection with the next generation of gravitational wave detectors", TeV Particle Astrophysics, Naples (Italy), 2023
- "Investigating past activity of the Fermi Bubbles using cosmic ray signatures in Paleo-detectors", 108th National Congress of SIF, Milan (Italy), 2022

POSTERS

- "CCSNe detection perspectives with Einstein Telescope", Roma International Conference on AstroParticle Physics (Italy), 2024
- "GNNs applications in KM3NeT/ARCA", Neutrino Milan (Italy), 2024

SCHOOLS

I have been admitted and participated to the following schools:

- Summer School "ISAPP: Neutrino physics, astrophysics and cosmology", Varenna (Italy), 2023

TUTORING EXPERIENCE

- “Fisica generale” for the Bachelor’s Degree in Pharmacy, Sapienza University of Rome, academic year 2022/2023

OUTREACH

- “Gravitational Wave laboratory for primary school”, Rome (Italy) 2024
- “Maker Fair”, Rome (Italy) 2024
- “European Researchers’ Night”, Rome (Italy) 2023-2024
- “Focus Live”, Milan (Italy) 2018-2019
- “European Researchers’ Night”, Milan (Italy) 2018-2019

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Computer skills

- $\text{\LaTeX}$, C, C++, Python
- Microsoft Office suite
- Adobe Photoshop
- Docker

PUBLICATIONS

- [1] S. Aiello et al. “Embedded software of the KM3NeT central logic board”. In: *Comput. Phys. Commun.* 296 (2024), p. 109036. arXiv: 2308.01032 [astro-ph.IM].
- [2] A. G. Abac et al. “Search for Eccentric Black Hole Coalescences during the Third Observing Run of LIGO and Virgo”. In: *Astrophys. J.* 973.2 (2024), p. 132. arXiv: 2308.03822 [astro-ph.HE].
- [3] T. Unbehaun et al. “Prospects for combined analyses of hadronic emission from γ -ray sources in the Milky Way with CTA and KM3NeT”. In: *Eur. Phys. J. C* 84.2 (2024), p. 112. arXiv: 2309.03007 [astro-ph.HE].
- [4] S. Aiello et al. “Searches for neutrino counterparts of gravitational waves from the LIGO/Virgo third observing run with KM3NeT”. In: *JCAP* 04 (2024), p. 026. arXiv: 2311.03804 [astro-ph.HE].
- [5] S. Aiello et al. “The Power Board of the KM3NeT Digital Optical Module: design, upgrade, and production”. In: *Electronics* 13.11 (2024), p. 2044. arXiv: 2311.14872 [astro-ph.IM].
- [6] S. Aiello et al. “Astronomy potential of KM3NeT/ARCA”. In: *Eur. Phys. J. C* 84.9 (2024), p. 885. arXiv: 2402.08363 [astro-ph.HE].
- [7] S. Aiello et al. “Differential Sensitivity of the KM3NeT/ARCA detector to a diffuse neutrino flux and to point-like source emission: Exploring the case of the Starburst Galaxies”. In: *Astropart. Phys.* 162 (2024), p. 102990. arXiv: 2402.09088 [astro-ph.HE].
- [8] A. G. Abac et al. “Ultralight vector dark matter search using data from the KAGRA O3GK run”. In: *Phys. Rev. D* 110.4 (2024), p. 042001. arXiv: 2403.03004 [astro-ph.CO].
- [9] S. Aiello et al. “Atmospheric muons measured with the KM3NeT detectors in comparison with updated numeric predictions”. In: *Eur. Phys. J. C* 84.7 (2024), p. 696. arXiv: 2403.11946 [astro-ph.HE].

- [10] A. G. Abac et al. “Observation of Gravitational Waves from the Coalescence of a 2.5–4.5 M Compact Object and a Neutron Star”. In: *Astrophys. J. Lett.* 970.2 (2024), p. L34. arXiv: 2404.04248 [astro-ph.HE].
- [11] S. Aiello et al. “Search for neutrino emission from GRB 221009A using the KM3NeT ARCA and ORCA detectors”. In: *JCAP* 08 (2024), p. 006. arXiv: 2404.05354 [astro-ph.HE].
- [12] Lorenzo Caccianiga, Lorenzo Apollonio, Federico Maria Mariani, Paolo Magnani, Claudio Galelli, and Alessandro Veutro. “Sedimentary rocks from Mediterranean drought in the Messinian age as a probe of the past cosmic ray flux”. In: *Phys. Rev. D* 110.12 (2024), p. L121301. arXiv: 2405.04908 [astro-ph.HE].
- [13] Gayathri Raman et al. “Swift-BAT GUANO Follow-up of Gravitational-wave Triggers in the Third LIGO–Virgo–KAGRA Observing Run”. In: *Astrophys. J.* 980.2 (2025), p. 207. arXiv: 2407.12867 [astro-ph.HE].
- [14] S. Aiello et al. “Measurement of neutrino oscillation parameters with the first six detection units of KM3NeT/ORCA”. In: *JHEP* 10 (2024), p. 206. arXiv: 2408.07015 [hep-ex].
- [15] A. G. Abac et al. “A Search Using GEO600 for Gravitational Waves Coincident with Fast Radio Bursts from SGR 1935+2154”. In: *Astrophys. J.* 977.2 (2024), p. 255. arXiv: 2410.09151 [astro-ph.HE].
- [16] S. Aiello et al. “Search for non-standard neutrino interactions with the first six detection units of KM3NeT/ORCA”. In: *JCAP* 02 (2025), p. 073. arXiv: 2411.19078 [hep-ex].

Ai fini della pubblicazione

F.to Alessandro Veutro