

Nicolas De Angelis

Curriculum Vitae

8 rue Joseph Dépoisier
74300 Cluses, France
☎ (+33) 6 67 92 18 52
✉ nicolasdeangelis5@gmail.com
📁 ndeangel.github.io
🌐 nicolas-de-angelis
🆔 0000-0002-2498-0213
🔑 EG3yENsAAAAJ
🗣️ French, Italian
Born 05 November 1997
Single - Driving licence



Work Experience

- Feb 2024 – **Post-doctoral researcher**, *Istituto di Astrofisica e Planetologia Spaziali (IAPS), National Institute for Astrophysics (INAF)*, Rome, Italy.
Development of experiments for X and Gamma Ray Astronomy from space for the CUSP, SWIPE, PRIN MIUR 2020 Hype-X, IXPE, eXTP and HERMES projects
- Sept 2019 – **PhD in high energy astrophysics**, *Département de Physique Nucléaire et Corpusculaire (DPNC), University of Geneva*, Geneva, Switzerland.
Dec 2023
PhD thesis: Development of the Next Generation Space-based Compton Polarimeter and Energy Resolved Polarization Analysis of Gamma-Ray Bursts Prompt Emission – <https://doi.org/10.13097/archive-ouverte/unige:173869>
Development of the next generation Compton polarimeter POLAR-2: SiPM characterization, Optical characterization and Geant4 simulation, data acquisition with ASIC/FPGA-based electronics, Space qualification campaigns (irradiation, vibration and shock, thermal vacuum cycling), Mechanical assembly/design, Gamma-ray detector calibration
Gamma-Ray Burst polarization data analysis with the POLAR data
Involved in the development of other future space-based experiments: eXTP, LEAP
Research work published in peer-reviewed journals and presented in international conferences/workshops
Outreach activities: Nuit de la Science 2018, Nuit de la Science 2022, Young Researchers Day 2023
- Sept 2019 – **Teaching Assistant**, *Section de Physique, University of Geneva*, Geneva, Switzerland.
June 2023
Teaching experimental laboratory of physics (classical mechanics, thermodynamics, optics, electronics, nuclear physics) to biology students - 8 hours per week (2019-2020)
Teaching general physics (classical mechanics, thermodynamics, electrodynamics, hydrodynamics, elasticity) to biology, geology, pharmacy, and IT students - 4 hours per week (2020-2023)
- Sept–Dec 2018 **Auxiliaire de Recherche et d'Enseignement**, *Département de Physique de la Matière Quantique (DQMP), University of Geneva*, Geneva, Switzerland.
Teaching experimental laboratory of physics to biology students - 4 hours per week

Education and Training

- 2017–2019 **Master's degree in Nuclear and Particle Physics**, *Département de Physique Nucléaire et Corpusculaire (DPNC), University of Geneva*, Geneva, Switzerland.
Master thesis: Studies of readout electronics and optical elements for a gamma-ray telescope (CTA SST-1M) – <https://cds.cern.ch/record/2683289>
Work presented at the CTA Consortium meeting of Lugano in June 2019

- Summer 2017 **Internship at CERN in the group of Prof. Iacobucci (ATLAS collaboration)**, *European Organization for Nuclear Research*, Geneva, Switzerland.
Finite element simulation of hybrid HV-CMOS cross coupling
- 2014–2017 **Bachelor's degree in Physics**, *University of Geneva*, Geneva, Switzerland.
- 2011–2014 **French Baccalaureat in Science (A-Level equivalent) with Honours, major in engineering sciences and mathematics**, *Lycée Charles Poncet*, Cluses, France.

Programming Skills

Software	LaTeX, Matlab, Mathematica, Cadence PSpice, LabView, COMSOL Multiphysics, SolidWorks, Catia, mecaflux Heliciel, Igor Pro, Maple, Adobe Illustrator/Lightroom, Gimp, Microsoft Office Suite
Programming language	Python, C, C++, ROOT, Geant4, basic knowledge of R and C#

Languages

French	Mother Tongue
English	Fluent
Italian	Intermediate
German	Basic
Russian	Basic

Basic words and phrases only

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Interests

- Amateur Astronomy
- Photography and Astrophotography
- Sport: Running, Climbing, Yoga, Badminton, Hiking, Swimming, Cycling
- Space exploration
- Science & Engineering



Nicolas De Angelis,
23rd January 2024