

ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

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[Nome e cognome] CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	GARIAZZO
NOME	STEFANO
DATA DI NASCITA	30/07/1988

**INSERIRE IL PROPRIO CURRICULUM
(non eccedente le 30 pagine)**

Stefano Gariazzo

Instituto de Física Corpuscular
Parque Científico, C/Catedrático José Beltrán, 2 – E-46980 Paterna (Valencia), Spain
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Curriculum Vitae

Last update: 18/04/2019

An updated version of my CV can be found at:
http://ific.us.es/~gariazzo/cv_sg_res.pdf

Personal Data

Date of Birth 30/07/1988
Place of Birth Biella (BI) - Italy

Resume

I finished my three years doctoral studies in the Physics Department of the University of Torino and I obtained my degree on 22/03/2016. With this thesis I won the Premio Nazionale “Sergio Fubini” 2016, awarded by INFN, as one of the three best PhD thesis in theoretical physics discussed in Italy in the academic year 2015/2016. During the three years I worked mainly on the phenomenology of a light sterile neutrino in cosmology, with a particular focus on Cosmic Microwave Background physics: I studied how cosmology and oscillation experiments can put joint constraints on the properties of a possible additional neutrino, using several different numerical tools. The good knowledge of these tools and of the theoretical cosmological framework allowed me to extend my research to other phenomenological models that involve new physics beyond the Standard Model.

After the PhD studies I moved to Valencia as a post-doc. I am working at IFIC (CSIC–University of Valencia) in the Astroparticle and High Energy Physics group, whose PI is prof. J.W.F. Valle. I continued to work in cosmology and neutrino physics, with a particular interest in the relic neutrinos and their clustering in the Milky Way, on which I am working in collaboration with Dr S. Pastor and his PhD student P.F. de Salas. At the end of 2017 I joined the collaboration working on the PTOLEMY proposal for the direct detection of relic neutrinos.

I worked successfully within teams involving people from several research institutes in Europe. I attended many international conferences where I presented the results obtained in our studies, having also the possibility to discuss with many colleagues and develop new ideas and projects.

Among the strong computational skills I developed for my research activity, I want to underline the ability to manage a cloud computational facility hosted in our Department, for which I was the representative for the Theoretical Astroparticle Physics group. I also learned how to install and manage a simple HTCondor pool.

I had the interesting opportunity to be the assistant supervisor for a Master’s degree student, who successfully obtained his degree in July 2015. His thesis was awarded as the best thesis in Theoretical Physics discussed in Torino in 2015. Previously I had a teaching experience with the students at the first year of the Bachelor degree in Physics, during which I helped the students to solve the problems and understand the physics we were dealing with.

I participated the 2017 call for a Marie Skłodowska Curie Individual Fellowship, which I won with a proposal based on neutrino physics and neutrino cosmology. My two years project started in April 2018 and will be developed in Valencia, at IFIC, under the supervision of Dr S. Pastor.

Since April 2016, I am one of the authors of the website “Neutrino Unbound” (<http://www.nu.to.infn.it/>), whose aim is to provide the community with many relevant information on neutrino-related experiments, publications and conferences.

Education

- 2013–2016 **PhD in Physics and Astrophysics**, *University of Torino*, Torino, 22/03/2016.
Supervisors: Dr. Carlo Giunti, Prof. Nicolao Fornengo
Thesis title: *New Developments in Cosmology*
Full PDF available at <http://arxiv.org/abs/1603.09102>
- 2010–2012 **Master’s degree in Physics**, *University of Torino*, Torino, 110/110 *cum laude*, 20/07/2012.
Theoretical curriculum
Supervisor: Prof. Fiorenza Donato
Thesis title: *Signals of Dark Matter in Active Galactic Nuclei*
- 2007–2010 **Bachelor in Physics**, *University of Torino*, Torino, 110/110 *cum laude*, 20/07/2010.
Supervisor: Prof. Nicolao Fornengo
Thesis title: *Dark Matter Relic Abundance in Alternative Cosmologies*
- 2002–2007 **High School Diploma**, *Liceo Scientifico “A. Avogadro”*, Biella, 100/100.

Fellowships

- 2018–present Marie Skłodowska Curie Action, Individual Fellowship – call H2020-MSCA-IF-2017 – project 796941 (ENCORE). Web page of the project: <https://encore.astroparticles.es/>
- 2016–present Member of the AHEP group at IFIC, CSIC–University of Valencia
- 2013–2016 Associate member of INFN, Torino section

Awards

- 2016 Premio Nazionale “Sergio Fubini” 2016, awarded by INFN for the three best PhD thesis in theoretical physics discussed in Italy in the academic year 2015/2016
- 2007 Honorable Mention at the Italian Mathematical Olympiad

Experience

Teaching

- Spring 2014 Mentoring for “*Waves, Fluids and Thermodynamics*” course, University of Torino, in collaboration with Dr. Luisa Ostorero

Master’s Degree Theses

- 2014–2015 **Cotutor for student Riccardo Murgia**, University of Torino, *Master’s Degree in Physics*, 24/07/2015, ([link](#)).
With Prof. Nicolao Fornengo (Tutor), University of Torino.
Title: “Bounds on the coupling between dark matter and dark energy from CMB data”
Winner of the Premio Molinari (INFN Torino) - best thesis in Theoretical Physics discussed in Torino in 2015.

Conferences and Schools Organization

- 2018 Member of the Organizing Committee for “The quest for new physics” workshop, Valencia (ES), December 12–14
Convener for the Session IV (Neutrino masses, states and interactions) of the Neutrino Oscillation Workshop (NOW) 2018, Ostuni (IT), September 9–16
- 2015 Collaboration with the Local Organizing Committee of *TAUP 2015*, Torino (IT), September 7–11

2014 Member of the Local Organizing Committee for the International Doctoral School *ISAPP 2014*, Belgirate (IT), July 21–30

Referee

2018–present Nature Communications, Physics Review Letters

2017–present Physics Review D

Languages

Italian **Mother tongue**

English **Good**

FCE obtained in December 2006, Grade B

Spanish **Good**

French **Basic**

Computer skills and responsibilities

ECDL Full European Computer Driving License (2006)

Operating Systems Linux (Ubuntu, Sabayon, Fedora), Microsoft Windows (XP, Vista, 7, 8)

Programming Python, C++, Fortran, Mathematica, Perl

Web Programming HTML, CSS, PHP, JavaScript, jQuery

Database Administration and development with MySQL, Microsoft Access, LibreOffice Base, SQLite

Scientific CAMB, CosmoMC, CLASS, MontePython, MultiNest, PolyChord

Miscellaneous Bash scripting, L^AT_EX, T_EX (basic), Microsoft Office, LibreOffice, Git, Docker

Computation Scientific computing, pool configuration and administration with HTCondor (for the theoretical group of the Physics Department, University of Torino)

Cloud Virtual Machines management with OpenNebula and Eucalyptus tools (manager of the cloud system for the theoretical group of the Physics Department, University of Torino, 2013–2016)

N.U. I am one of the authors of the website “Neutrino Unbound” (<http://www.nu.to.infn.it/>), since April 2016

PhysBiblio I am developing a bibliography manager in Python, using PySide for the graphical interface. It can be found here: <https://github.com/steog88/physBiblio>.

Other websites I am webmaster of the following WordPress pages: <https://astroparticles.es>, <https://globalfit.astroparticles.es>, <https://encore.astroparticles.es>.

Publications

A complete list of my publications can be found at:
<http://inspirehep.net/author/profile/Stefano.Gariazzo.1>

Reviews

[R1] **S. Gariazzo**, C. Giunti, M. Laveder, Y. F. Li, E. M. Zavanin.

“Light sterile neutrinos”.

J. Phys. G 43 (2016), p. 033001. DOI: 10.1088/0954-3899/43/3/033001.

arXiv: 1507.08204 [hep-ph].

[R2] P. De Salas, **S. Gariazzo**, O. Mena, C. Ternes, M. Tórtola.

“Neutrino Mass Ordering from Oscillations and Beyond: 2018 Status and Future Prospects”.

Front.Astron.Space Sci. 5 (2018), p. 36. DOI: 10.3389/fspas.2018.00036.

arXiv: 1806.11051 [hep-ph].

Articles

- [A1] **S. Gariazzo**, C. Giunti, M. Laveder.
“Light Sterile Neutrinos in Cosmology and Short-Baseline Oscillation Experiments”.
JHEP 11 (2013), p. 211. DOI: 10.1007/JHEP11(2013)211.
arXiv: 1309.3192 [hep-ph].
- [A2] M. Archidiacono, N. Fornengo, **S. Gariazzo** et al.
“Light sterile neutrinos after BICEP-2”.
JCAP 06 (2014), p. 031. DOI: 10.1088/1475-7516/2014/06/031.
arXiv: 1404.1794 [astro-ph.CO].
- [A3] **S. Gariazzo**, C. Giunti, M. Laveder.
“Cosmological Invisible Decay of Light Sterile Neutrinos” ().
arXiv: 1404.6160 [astro-ph.CO].
- [A4] **S. Gariazzo**, C. Giunti, M. Laveder.
“Light Sterile Neutrinos and Inflationary Freedom”.
JCAP 04 (2015), p. 023. DOI: 10.1088/1475-7516/2015/04/023.
arXiv: 1412.7405 [astro-ph.CO].
- [A5] E. Di Valentino, **S. Gariazzo**, E. Giusarma, O. Mena.
“Robustness of cosmological axion mass limits”.
Phys. Rev. D 91 (2015), p. 123505. DOI: 10.1103/PhysRevD.91.123505.
arXiv: 1503.00911 [astro-ph.CO].
- [A6] **S. Gariazzo**, L. Lopez-Honorez, O. Mena.
“Primordial Power Spectrum features and f_{NL} constraints”.
Phys. Rev. D 92 (2015), p. 063510. DOI: 10.1103/PhysRevD.92.063510.
arXiv: 1506.05251 [astro-ph.CO].
- [A7] A. G. Cadavid, A. E. Romano, **S. Gariazzo**.
“Effects of local features of the inflaton potential on the spectrum and bispectrum of primordial perturbations”.
Eur. Phys. J. C 76 (2016), p. 385. DOI: 10.1140/epjc/s10052-016-4232-4.
arXiv: 1508.05687 [astro-ph.CO].
- [A8] E. Di Valentino, **S. Gariazzo**, M. Gerbino, E. Giusarma, O. Mena.
“Dark Radiation and Inflationary Freedom after Planck 2015”.
Phys. Rev. D 93 (2016), p. 083523. DOI: 10.1103/PhysRevD.93.083523.
arXiv: 1601.07557 [astro-ph.CO].
- [A9] R. Murgia, **S. Gariazzo**, N. Fornengo.
“Constraints on the Coupling between Dark Energy and Dark Matter from CMB data”.
JCAP 04 (2016), p. 014. DOI: 10.1088/1475-7516/2016/04/014.
arXiv: 1602.01765 [astro-ph.CO].
- [A10] **S. Gariazzo**, O. Mena, H. Ramirez, L. Boubekur.
“Primordial power spectrum features in phenomenological descriptions of inflation”.
Phys. Dark Univ. 17 (2017), pp. 38–45. DOI: 10.1016/j.dark.2017.07.003.
arXiv: 1606.00842 [astro-ph.CO].
- [A11] M. Archidiacono et al.
“Pseudoscalar—sterile neutrino interactions: reconciling the cosmos with neutrino oscillations”.
JCAP 08 (2016), p. 067. DOI: 10.1088/1475-7516/2016/08/067.
arXiv: 1606.07673 [astro-ph.CO].
- [A12] A. Gallego Cadavid, A. E. Romano, **S. Gariazzo**.
“CMB anomalies and the effects of local features of the inflaton potential”.
Eur. Phys. J. C 77 (2017), p. 242. DOI: 10.1140/epjc/s10052-017-4797-6.
arXiv: 1612.03490 [astro-ph.CO].

- [A13] R. Diamanti, S. Ando, **S. Gariazzo**, O. Mena, C. Weniger.
“Cold dark matter plus not-so-clumpy dark relics”.
JCAP 06 (2017), p. 008. DOI: 10.1088/1475-7516/2017/06/008.
arXiv: 1701.03128 [astro-ph.CO].
- [A14] **S. Gariazzo**, O. Mena, V. Miralles, H. Ramirez, L. Boubekur.
“The running of featureful primordial power spectra”.
Phys. Rev. D 95 (2017), p. 123534. DOI: 10.1103/PhysRevD.95.123534.
arXiv: 1701.08977 [astro-ph.CO].
- [A15] **S. Gariazzo**, C. Giunti, M. Laveder, Y. F. Li.
“Updated Global 3+1 Analysis of Short-BaseLine Neutrino Oscillations”.
JHEP 06 (2017), p. 135. DOI: 10.1007/JHEP06(2017)135.
arXiv: 1703.00860 [hep-ph].
- [A16] **S. Gariazzo**, M. Escudero, R. Diamanti, O. Mena.
“Cosmological searches for a non-cold dark matter component”.
Phys. Rev. D 96 (2017), p. 043501. DOI: 10.1103/PhysRevD.96.043501.
arXiv: 1704.02991 [astro-ph.CO].
- [A17] P. F. de Salas, **S. Gariazzo**, J. Lesgourgues, S. Pastor.
“Calculation of the local density of relic neutrinos”.
JCAP 09 (2017), p. 034. DOI: 10.1088/1475-7516/2017/09/034.
arXiv: 1706.09850 [astro-ph.CO].
- [A18] P. Villanueva-Domingo, **S. Gariazzo**, N. Y. Gnedin, O. Mena.
“Was there an early reionization component in our universe?”
JCAP 04 (2018), p. 024. DOI: 10.1088/1475-7516/2018/04/024.
arXiv: 1712.02807 [astro-ph.CO].
- [A19] **S. Gariazzo**, M. Archidiacono, P. Salas et al.
“Neutrino masses and their ordering: Global Data, Priors and Models”.
JCAP 03 (2018), p. 011. DOI: 10.1088/1475-7516/2018/03/011.
arXiv: 1801.04946 [hep-ph].
- [A20] **S. Gariazzo**, C. Giunti, M. Laveder, Y. Li.
“Model-independent $\bar{\nu}_e$ short-baseline oscillations from reactor spectral ratios”.
Phys.Lett.B 782 (2018), pp. 13–21. DOI: 10.1016/j.physletb.2018.04.057.
arXiv: 1801.06467 [hep-ph].
- [A21] P. F. Salas, **S. Gariazzo**, M. Laveder et al.
“Cosmological bounds on neutrino statistics”.
JCAP 03 (2018), p. 050. DOI: 10.1088/1475-7516/2018/03/050.
arXiv: 1802.04639 [astro-ph.CO].
- [A22] S. Witte, P. Villanueva-Domingo, **S. Gariazzo**, O. Mena, S. Palomares-Ruiz.
“EDGES result versus CMB and low-redshift constraints on ionization histories”.
Phys. Rev. D 97 (2018), p. 103533. DOI: 10.1103/PhysRevD.97.103533.
arXiv: 1804.03888 [astro-ph.CO].
- [A23] **S. Gariazzo**, O. Mena.
“Cosmology-marginalized approaches in Bayesian model comparison: the neutrino mass as a case study”.
Phys. Rev. D 99 (2019), p. 021301. DOI: 10.1103/PhysRevD.99.021301.
arXiv: 1812.05449 [astro-ph.CO].

PTOLEMY collaboration

- [A24] E. Baracchini et al.
“PTOLEMY: A Proposal for Thermal Relic Detection of Massive Neutrinos and Directional Detection of MeV Dark Matter” (2018).
arXiv: 1808.01892 [physics.ins-det].
- [A25] M. Betti et al.
“A design for an electromagnetic filter for precision energy measurements at the tritium endpoint”.
Progress in Particle and Nuclear Physics (Feb. 2019). DOI: 10.1016/j.ppnp.2019.02.004.
arXiv: 1810.06703 [astro-ph.IM].
- [A26] M. Betti et al.
“Neutrino Physics with the PTOLEMY project” (2019).
arXiv: 1902.05508 [astro-ph.CO].

Conference Proceedings

- [P1] **S. Gariazzo**.
“Dark Radiation and Inflationary Freedom”.
14th International Conference on Topics in Astroparticle and Underground Physics (TAUP 2015). Torino, Italy, September 7–11, 2015.
Ed. by N. Fornengo, M. Regis, H. Zechlin, IOP, 2015.
arXiv: 1510.05980 [astro-ph.CO].
- [P2] **S. Gariazzo**.
“Light Sterile Neutrinos In Cosmology”.
17th Lomonosov Conference on Elementary Particle Physics. Moscow, Russia, August 20–26, 2015.
Ed. by A. Studenikin, World Scientific Publ. Co., 2017, pp. 469–475. DOI: 10.1142/9789813224568_0076.
arXiv: 1601.01475 [astro-ph.CO].
- [P3] **S. Gariazzo**.
“Dark Radiation and Inflationary Freedom”.
NuPhys2015, Prospects in Neutrino Physics. Barbican Centre, London, UK, December 16–18, 2015. 2016.
arXiv: 1602.05902 [astro-ph.CO].
- [P4] **S. Gariazzo**.
“Light sterile neutrinos and pseudoscalar interactions in cosmology”.
Neutrino Oscillation Workshop (NOW) 2016. Otranto, Italy, September 5–10, 2016.
Ed. by A. Marrone, A. Mirizzi, D. Montanino, PoS, 2016.
arXiv: 1610.01330 [astro-ph.CO].
- [P5] **S. Gariazzo**.
“Neutrino clustering in the Milky Way”.
18th Lomonosov Conference on Elementary Particle Physics. Moscow, Russia, August 24–30, 2017.
Ed. by A. Studenikin, World Scientific Publ. Co., 2017.
arXiv: 1710.06782 [astro-ph.CO].
- [P6] **S. Gariazzo**.
“Neutrino mass eigenstates and their ordering: a Bayesian approach”.
Incontri di Fisica delle Alte Energie (IFAE) 2018. Milan, Italy, April 4–6, 2018. 2018.
arXiv: 1806.11344 [hep-ph].
- [P7] **S. Gariazzo**.
“Neutrino Properties and the Cosmological Tensions in the Λ CDM Model”.
Proceedings, 15th Marcel Grossmann Meeting on Recent Developments in Theoretical and Ex-

perimental General Relativity, Astrophysics, and Relativistic Field Theories (MG15): Rome, Italy, July 1-7, 2018. 2018.

arXiv: 1812.00638 [astro-ph.CO].

Other Documents and Conference Proceedings

- [P8] E. Di Valentino, **S. Gariazzo**, E. Giusarma, O. Mena.
“Robustness of cosmological thermal axion mass bounds”.
Proceedings, 14th Marcel Grossmann Meeting on Recent Developments in Theoretical and Experimental General Relativity, Astrophysics, and Relativistic Field Theories (MG14): Rome, Italy, July 12-18, 2015. Vol. 3. 2017, pp. 2125–2130. DOI: 10.1142/9789813226609_0236.
- [P9] E. Giusarma, M. Gerbino, A. Melchiorri et al.
“Constraints on massive neutrinos in a non-standard PPS scenario”.
Proceedings, 14th Marcel Grossmann Meeting on Recent Developments in Theoretical and Experimental General Relativity, Astrophysics, and Relativistic Field Theories (MG14) (In 4 Volumes): Rome, Italy, July 12-18, 2015. Vol. 3. 2017, pp. 2120–2124. DOI: 10.1142/9789813226609_0235.
- [P10] A. Dell’Acqua et al.
“Future Opportunities in Accelerator-based Neutrino Physics”.
Summary Document of the European Neutrino Town Meeting, Oct 22-24 at CERN.
Ed. by A. Blondel, A. De Roeck, J. Kopp, 2018.
arXiv: 1812.06739 [hep-ex].

Visits

- 2019 **Rheinisch-Westfälische Technische Hochschule (RWTH)**, Aachen (DE), February 1–April 30.
Ref. Prof. J. Lesgourgues

Talks at International Conferences, Workshops and Schools

The PDF of the talks are all available at:

<http://ific.uv.es/~gariazzo/pdf/Talks/>

- 2019 **PHYSTAT-nu** (link), CERN (CH), January 23.
(Invited) “Fit to large and combined data sets”
- 2018 **The magnificent $CE\nu NS$** (link), Chicago (USA/IL), November 3.
(Invited) “Light sterile neutrinos: the 2018 status”
- X CPAN DAYS** (link), Salamanca (ES), October 29.
“Light sterile neutrinos: the 2018 status”
- European Neutrino "Town" meeting** (link), CERN (CH), October 22.
(Invited) “Neutrinos and cosmology”
- 15th Marcel Grossmann Meeting** (link), Roma (IT), July 3.
(Invited) “Neutrino Properties and the Cosmological Tensions in the Λ CDM Model”
- COSMOS meeting on Astroparticle and Fundamental Physics with the CMB** (link), Ferrara (IT), June 27.
(Invited) “Dark radiation candidates: light sterile neutrinos and thermal axions”
- VI Meeting on Fundamental Cosmology** (link), Granada (ES), May 29.
(Invited) “What cosmology can say about neutrino mass ordering and additional neutrinos”
- Incontri di Fisica delle Alte Energie (IFAE)** (link), Milan (IT), April 5.
“Autostati di massa dei neutrini e il loro ordine: un approccio Bayesiano” (*in Italian*)
- 2017 **Kick-off meeting of the PTOLEMY project** (link), Gran Sasso (IT), December 11.
(Invited) “Direct detection, PTOLEMY and the clustering of relic neutrinos”

VI Postgraduate Meeting On Theoretical Physics ([link](#)), Valencia (ES), November 29.

“Neutrino mass ordering: current status”

Collider Physics and the Cosmos ([link](#)), Firenze (IT), October 9.

(*Invited*) “Cosmology and Sterile Neutrinos”

Meeting on Fundamental Cosmology ([link](#)), Teruel (ES), September 13.

(*Invited*) “Relic neutrinos, direct detection and clustering in the Milky Way”

18th Lomonosov Conference on Elementary Particle Physics ([link](#)), Moscow (RU), August 25.

“Neutrino clustering in the Milky Way”

WIN 2017 ([link](#)), Irvine (CA-US), June 20.

(*Invited*) “Neutrino clustering in the Milky Way”

2016 **Axions & IAXO in Spain** ([link](#)), Zaragoza (ES), October 27.

(*Invited*) “Axions and the CMB”

Neutrino Oscillation Workshop (NOW) 2016 ([link](#)), Otranto (IT), September 5.

“Light sterile neutrinos with pseudoscalar interactions in Cosmology”

2015 **TAUP 2015** ([link](#)), Torino (IT), September 7.

“Dark Radiation and Inflationary Freedom”

17th Lomonosov Conference on Elementary Particle Physics ([link](#)), Moscow (RU), August 24.

“Light Sterile Neutrinos in Cosmology”

2014 **New Frontiers in Theoretical Physics** ([link](#)), Cortona (IT), May 29.

“Reconciling cosmology and short-baseline experiments with invisible decay of light sterile neutrinos”

2013 **ISAPP 2013**, *International Doctoral School*, Canfranc (ES), July 20.

“Testing 3+1 Neutrino Mass Models with Cosmology and Short-Baseline Experiments”

Seminars

2019 **RWTH Aachen** ([link](#)), Aachen (DE), April 2.

“Relic neutrinos and the PTOLEMY project”

RWTH Aachen, Aachen (DE), February 11.

“Towards model-independent constraints on neutrino properties from cosmology”

2018 **Max Planck Institute for Physics (MPP)** ([link](#)), Munich (DE), April 26.

“Direct detection of relic neutrinos with PTOLEMY”

IFIC, CSIC–University of Valencia ([link](#)), Valencia (ES), January 26.

“Bayesian model comparison applied to neutrino masses and their ordering”

2017 **Physics Department, University of Torino** ([link](#)), Torino (IT), December 21.

“Direct detection of relic neutrinos”

INFN CSN4 ([link](#)), Catania (IT), April 6.

“New Developments in Cosmology”

2016 **IFIC, CSIC–University of Valencia** ([link](#)), Valencia (ES), April 27.

“New Developments in Cosmology”

Physics Department, University of Torino, *Internal seminar*, Torino (IT), March 16.

“New Developments in Cosmology”

Lectures

2018 **8th IDPASC School** ([link](#)), Valencia (ES), May 23.

“Hands on cosmology”

Posters at International Conferences, Workshops and Schools

- 2018 **XXVIII International Conference on Neutrino Physics and Astrophysics (Neutrino 2018)** (link), Heidelberg (DE), June 4–9.
“Model-Independent $\bar{\nu}_e$ Short-Baseline Oscillations from Reactor Spectral Ratios”
- 2015 **NuPhys 2015** (link), London (UK), December 16–18.
“Dark Radiation and Inflationary Freedom”
- 2014 **The Primordial Universe after Planck** (link), Paris (FR), December 15–19.
“Light Sterile Neutrinos and Inflationary Freedom”
- Planck 2014** (link), Ferrara (IT), December 1–5.
“Light Sterile Neutrinos and Inflationary Freedom”
- 2013 **ISAPP 2013**, *International Doctoral School*, Canfranc (ES), July 14–23.
“Testing 3+1 Neutrino Mass Models with Cosmology and Short-Baseline Experiments”

Participation at Conferences, Workshops and Schools

- 2019 **PHYSTAT-nu**, CERN (CH), January 22–25.
- 2018 **The quest for new physics**, Valencia (ES), December 12–14.
- International Conference on Cosmic Neutrino Background Detection and Dark Matter Searches with PTOLEMY**, Gran Sasso (IT), November 26–28.
- The magnificent CE ν NS**, Chicago (USA/IL), November 2–3.
- X CPAN DAYS**, Salamanca (ES), October 29–31.
- European Neutrino “Town” meeting**, CERN (CH), October 22–24.
- Neutrino Oscillation Workshop (NOW) 2018**, Ostuni (IT), September 9–16.
- History of the Neutrino**, Paris (FR), September 5–7.
- 15th Marcel Grossmann Meeting**, Roma (IT), July 1–7.
- COSMOS meeting on Astroparticle and Fundamental Physics with the CMB**, Ferrara (IT), June 26–27.
- XXVIII International Conference on Neutrino Physics and Astrophysics (Neutrino 2018)**, Heidelberg (DE), June 4–9.
- VI Meeting on Fundamental Cosmology**, Granada (ES), May 28–30.
- 8th IDPASC School**, Valencia (ES), May 21–31.
- Incontri di Fisica delle Alte Energie (IFAE)**, Milan (IT), April 4–6.
- 2017 **Kick-off meeting of the PTOLEMY project**, Gran Sasso (IT), December 11–12.
- VI Postgraduate Meeting On Theoretical Physics**, Valencia (ES), November 29–December 1.
- Physics opportunities with a new universe’s view: the SKA radio telescope**, Valencia (ES), November 6–7.
- Collider Physics and the Cosmos**, Firenze (IT), October 9–13.
- Meeting on Fundamental Cosmology**, Teruel (ES), September 11–13.
- 18th Lomonosov Conference on Elementary Particle Physics**, Moscow (RU), August 23–30.
- WIN 2017**, Irvine (CA-US), June 18–24.
- 2016 **Axions & IAXO in Spain**, Zaragoza (ES), October 27–28.
- Neutrino Oscillation Workshop (NOW) 2016**, Otranto (IT), September 4–11.
- TorinoCloud Users Workshop**, Torino (IT), May 26.
- What Next 2016**, Rome (IT), February 16–17.
- 2015 **NuPhys 2015**, London (UK), December 16–18.

- TAUP 2015**, Torino (IT), September 7–11.
Fermi Open Day, Torino (IT), September 4.
17th Lomonosov Conference on Elementary Particle Physics, Moscow (RU), August 20–26.
Theoretical Astroparticle Physics Workshop, Torino (IT), July 9–10.
PASCOS 2015, Trieste (IT), June 29–July 3.
- 2014 **The Primordial Universe after Planck**, Paris (FR), December 15–19.
Planck 2014, Ferrara (IT), December 1–5.
Neutrino Oscillation Workshop (NOW) 2014, Conca Specchiulla, Otranto (IT), September 8–14.
ISAPP 2014, *International Doctoral School*, Belgirate (IT), July 21–30.
 “Multi-Wavelength and Multi-Messenger Investigation of the Visible and Dark Universe”
New Frontiers in Theoretical Physics, Cortona (IT), May 28–31.
- 2013 **ISAPP 2013**, *International Doctoral School*, Canfranc (ES), July 14–23.
 “Neutrino Physics and Astrophysics”

Outreach and Education

- 2011 **Invited seminar**, “A. Avogadro” High School, Biella (IT), May 4, 2011.
 “The Universe: a History Spanning Billions of Years” (*in Italian*)

Interests

- Music I studied Trombone at the Conservatorio “G. Verdi” of Torino (2010–2016), where I got the Diploma (13/07/2016, 9.25/10). I used to play this and analogous instruments in several groups and wind orchestras of different size, from 4 to 110 members. Additionally, I used to sing in a few choirs and I was the director of a small choir in my village.
- Sport I used to play Handball in the Pallamano Biella team (2004–2010) and tennis (until 2003). I like running (I completed my first Marathon in Valencia, 19/11/2017), swimming, skiing.
- Do It Yourself Occasionally I like spending time with small electrical, carpentry and hydraulic works at home.
- Reading I usually read book during holidays and when I travel.

References

- Dr. Carlo Giunti**, INFN, Torino.
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Data

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Luogo

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