

Gianfranco Bertone – CV

Contact

Address: Institute of Physics
University of Amsterdam
Postbus 94485
1090 GL Amsterdam, NL

Tel.: +31 20 525 7658
E-mail: g.bertone@uva.nl
Homepage: <http://gianfrancobertone.net>

Profile

Professor of Theoretical Astroparticle Physics working across cosmology, high-energy astrophysics, particle physics, and gravitation, with dark matter as the thread connecting much of my research. My current programme, supported by NWO and by the ERC Advanced Grant *De Tenebris*, uses black holes and gravitational waves as probes of fundamental physics and cosmology. Alongside this scientific work, I have devoted a substantial part of my career to building scientific institutions and communities, from local research centres to the European Consortium for Astroparticle Theory, EuCAPT, hosted at CERN and bringing together 140+ partner institutions and ~2000 researchers. My public engagement has focused on science literacy and the civic role of science, especially through the *Global Cosmos Prize Programme for Science Literacy*, endorsed under the UN International Decade of Sciences for Sustainable Development, led by UNESCO.

Positions Held and Education

Full Professor , Institute of Physics, U. of Amsterdam, NL	Oct 2019 – present
Visiting Professor , Department of Physics, Columbia U. (NY, USA)	Feb 2024 – Apr 2024
Fellow , Italian Academy for Advanced Studies in America, Columbia U. (NY, USA)	Feb 2024 – Apr 2024
Associate Professor , Institute of Physics, U. of Amsterdam, NL	Oct 2011 – Sep 2019
Visiting Professor , Institute for Theoretical Physics, U. of Zürich, CH	Oct 2009 – Oct 2011
Permanent CNRS Researcher , Institut d’Astrophysique de Paris, France	Apr 2006 – Sep 2009
Helmholtz Association IVF Fellow , Department of Physics, U. of Padova, Italy	Oct 2005 – Mar 2007
Research Associate , Particle Astrophysics Center, Fermilab, Chicago US	Oct 2003 – Sep 2005
Associate Fellow , Center for Cosmological Physics, U. of Chicago	Oct 2003 – Sep 2005
PhD in Astrophysics , with honours (<i>félicitations du Jury</i>), IAP Paris	Sep 2000 – Jan 2004
Marie Curie visiting PhD student , University of Oxford, UK	Sep 2000 – Sep 2001
MSc (DEA) in Astrophysics , Observatoire de Paris-Meudon, Paris, France	Sep 1999 – Aug 2000
MSc (Laurea) in Theoretical Physics , U. of Rome "La Sapienza", Italy	Sep 1993 – July 1999

Leadership and Institution Building

Founding Director , EuCAPT, CERN <i>European network for astroparticle theory, hosted at CERN, bringing together 140+ partner institutions and ~2000 researchers.</i>	2019 – 2024
Founder and President , Global Cosmos Prize Program for Science Literacy <i>International science-literacy initiative for high-school students, now active in several countries and endorsed under the UN International Decade of Sciences for Sustainable Development (IDSSD), led by UNESCO.</i>	2019 – present
Founding Spokesperson , GRAPPA Center of Excellence in Gravitation and Astroparticle Physics <i>Center of excellence of the University of Amsterdam, bridging institutes of: Theoretical Physics, High-Energy Physics, and Astronomy.</i>	2014 – 2019
Chair , ERC PE9 Evaluation Panel <i>European Research Council Starting Grant evaluation panel for Universe Sciences.</i>	2025 – 2026
Founding Chair , TeV Particle Astrophysics Conference Series <i>Conference series, organised yearly since 2005 with editions hosted in 13 countries across 4 continents, as an international forum for astroparticle physics.</i>	2005 – present
Head of the Theoretical Physics Group , Institut d’Astrophysique de Paris, France <i>GRavitation et COsmologie group at IAP.</i>	2007 – 2009
Topic Leader , “Dark Matter and Primordial Black Holes”, COST Action CA16104 (GWVerse) <i>European COST network connecting gravitational-wave physics, cosmology, and fundamental physics.</i>	2017 – 2021

Selected Grants, Awards, and Distinctions

ERC Advanced Grant ‘De Tenebris’, PI	2026–present
San Giorgio d’Oro Award, Reggio Calabria, Italy	2024
Italian Academy Fellow, Columbia U. New York, NY USA	2024
Rhegium Julii Prize for best non-fiction book	2019
Ciel et Espace Prize for best astronomy book	2015
NWO M2 program “GW probes of dark matter”, PI	2019 – 2023
NWO program “GW: a new road to phys., astrophys. and cosmology”, Co-I	2019 – 2023
UvA Institute of Physics grants, PI	2017, 2018, 2020
Delta Institute for Theoretical Physics grants, PI	2013, 2016
ERC Starting Grant <i>WIMPS Kairos</i> , PI	2011 – 2016
Marie Curie fellowships, Scientist-in-charge	2009 – 2011, 2014 – 2016
FOM Program, Co-I	2013 – 2018
NASA Fermi Guest Investigator Cycle II Program, Co-I	2009 – 2010
ANR project <i>ToolsDMColl</i> , Co-I	2008 – 2011
CNRS Physique des 2 Infinis grant, PI	2008 – 2010
Helmholtz Association of National Research Centres Fellowship	2005 – 2007
Allocation de Recherche (French Government PhD fellowship)	2000 – 2003

Scientific Service and Editorial Activities

Grant evaluation and advisory roles

European Research Council (ERC), evaluation panel member and chair since 2025	2021 – present
DESY Physics Research Committee, Germany, advisory board	2017 – 2019
Helmholtz Alliance for Astroparticle Physics, Germany, evaluation committee	2014
NWO Vidi Grants, evaluation panel	2014

Expert reviewer for

ERC (European Research Council, EU); NSF (National Science Foundation, USA); ASI (Italian Space Agency), ANVUR, MIUR (Italy); NSERC (Natural Sciences and Engineering Research Council of Canada); STFC (Science and Technology Facilities Council, UK); ANR (Agence Nationale de la Recherche, France); NWO (Dutch Research Council, Netherlands).

Editorial roles

Editor-in-Chief, <i>Physics of the Dark Universe</i> , Elsevier	2011 – 2017
Editorial Fellow, SciPost open-access publication portal	2019 – present

Manuscript referee

Nature, *Science*, *Physical Review Letters*, *Physical Review D*, *JCAP*, *Monthly Notices of the Royal Astronomical Society*, *Astrophysical Journal*, *Astronomy & Astrophysics*, *JHEP*, *Physics Letters B*.

National and international committees

Committee for Astroparticle Physics in the Netherlands (CAN), member	2013 – 2019
International Union of Pure and Applied Physics (IUPAP), Astroparticle Commission	2012 – 2014
ISAPP European Doctorate School, Scientific Committee member	2014 – 2018
International Doctorate Program IDPASC, External Advisory Committee member	2014 – 2022
Young Academy of Europe (YAE), member	2012 – 2020

Institutional service and international coordination

ATLAS Collaboration at CERN, Short-Term Associate	2014 – 2015
University of Amsterdam, Faculty Search Committee chair	2012 – 2013, 2017 – 2018
Institut d’Astrophysique de Paris, member of the <i>Conseil de Laboratoire</i>	2009 – 2011
Spanish network <i>MultiDark</i> , coordinator of indirect dark-matter searches	2010 – 2015
French network <i>GdR Terascale</i> , coordinator of dark-matter studies	2007 – 2011
Fundação para a Ciência e a Tecnologia, Portugal, Associate Scientist	2001 – 2002
European Network <i>Supersymmetry and the Early Universe</i> , member	2000 – 2002

Scientific Meeting Leadership and Organization

Founder

TeV Particle Astrophysics Conference Series **2005 – present**
Fermilab, Batavia IL, USA (2005); University of Wisconsin, Madison WI, USA (2006); Istituto Veneto, Venice, Italy (2007); IHEP, Beijing, China (2008); SLAC, Stanford University, Palo Alto CA, USA (2009); IAP, Paris, France (2010); University of Stockholm, Sweden (2011); TIFR, Mumbai, India (2012); University of California, Irvine, USA (2013); University of Amsterdam, Netherlands (2014); University of Tokyo, Japan (2015); CERN, Switzerland (2016); Ohio State University, USA (2017); Berlin, Germany (2018); Sydney, Australia (2019); Chengdu, China (2021); Kingston, Canada (2022); Naples, Italy (2023); Chicago IL, USA (2024); Valencia, Spain (2025); Tendo, Japan (2026).

Dark Machines initiative **2017 – 2021**

Chair and co-chair roles

IFPU Focus Week *Gravitational Wave Probes of Black Hole Environments*, Trieste, Italy **2025**
GRAPPA@5 Symposium, Amsterdam, Netherlands **2017**
Symposium *History and Future of Dark Matter*, Amsterdam, Netherlands **2014**
CTS Workshop *Dark Matter in the Sky and Underground*, ITP Zurich, Switzerland **2010**
Workshop γ in Z, ITP Zurich, Switzerland **2009**
TANGO in PARIS Workshop, IAP Paris, France **2008**
EPS-HEP meeting, Astroparticle Physics session **2011**

Conference and workshop organization

Pollica Workshop *Beyond WIMPs*, Pollica, Italy **2026**
Dark Matter Conference, Santander, Spain, Scientific Advisory Committee **2021 – present**
Identification of Dark Matter conference series, International Advisory Committee **2008 – present**
ICTP Workshop *Accelerating the Search for Dark Matter with Machine Learning* **2019**
Lorentz Center Workshop *Accelerating the Search for DM with ML*, Netherlands **2018**
Banff Workshop *Statistical Challenges in the Search for Dark Matter*, Canada **2018**
ISAPP Doctoral School, Texel, Netherlands **2017**
Workshop *Big Data Tools for Physics and Astronomy*, Amsterdam, Netherlands **2017**
Workshop *Dark Matter at the LHC*, Amsterdam, Netherlands **2016**
Trends in Theory symposium of the DRSTP, Dalfsen, Netherlands **2015**
ICRC, The Hague, Netherlands, Local Organizing Committee **2015**
IFT Program in Particle Physics, Astroparticles and Cosmology, Madrid, Spain **2015**
KITP Workshop *Hunting for Dark Matter*, Santa Barbara, USA **2013**
Origin of Mass, University of Southern Denmark, International Advisory Committee **2013**
CosmoStat2013, Banff, Canada **2013**
Dark Universe Workshop, GGI Florence, Italy **2011**
Aspen Winter Workshop, Aspen, USA **2011**
Workshop *Dark Matter All Around*, IAP Paris, France **2010**

Regular seminar and discussion series

IoP colloquium series, Amsterdam NL **2012 – 2020**
Yearly Amsterdam–Paris–Stockholm–London meetings **2012 – 2019**
Weekly GRAPPA Club meetings **2012 – 2014**
Café GReCO weekly meetings at IAP **2007 – 2009**
Caffé Teorico meetings at INFN, Padova **2005 – 2006**
Fermilab Astrophysics Seminars **2004 – 2005**
Fermilab Astrophysics “Munch” Journal Club meetings **2004 – 2005**

Supervision

Supervision of postdoctoral fellows

Francisco Duque (ERC AdG postdoc) **2026 – 2029**
Matteo Sadun Bordoni (ERC AdG postdoc) **2026 – 2029**
Rodrigo Vicente (NWO M2 postdoc) **2024 – 2026**
Pippa Cole (IoP postdoc) **2020 – 2023**
Adam Coogan (IoP postdoc) **2018 – 2021**
Bradley Kavanagh (GRAPPA Fellow) **2017 – 2020**
Nilanjan Banik (D-ITP postdoc) **2017 – 2019**
Daniele Gaggero (GRAPPA Fellow) **2015 – 2018**
Christopher McCabe (GRAPPA fellow) **2014 – 2017**
Nassim Bozorgnia (ERC postdoc) **2014 – 2017**
Jennifer Siegal-Gaskins (Marie Curie fellow) **2014 – 2016**
Sofia Sivertsson (SRC postdoc) **2013 – 2015**

Mark Lovell (D-ITP postdoc)	2013 – 2015
Douglas Spolyar (ERC postdoc)	2013 – 2014
Francesca Calore (ERC postdoc)	2013 – 2015
Christoph Weniger (GRAPPA fellow)	2012 – 2015
Maria Cabrera (ERC postdoc)	2012 – 2014
Chiara Arina (ERC postdoc)	2012 – 2013
Fabio Iocco (Marie Curie fellow)	2008 – 2011
Lidia Pieri (<i>Ville de Paris</i> fellow)	2008 – 2009
Gabrijela Zaharijas (P2I fellow)	2010 – 2011
PhD advisor of	
Lucia Vélez (U. of Amsterdam)	2026 – 2030
Theophanes Karydas (U. of Amsterdam)	2024 – 2028
Gimmy Tomaselli (joint with D. Baumann)	2020 – 2024
Jaco de Swart (joint with Jeroen van Dongen)	2017 – 2021
Sidney Otten (joint with S. Caron, Radboud U.)	2018 – 2022
Sebastien Liem (U. of Amsterdam)	2013 – 2017
Hamish Silverwood (U. of Amsterdam)	2012 – 2016
Miguel Pato (IAP Paris, ITP Zurich)	2008 – 2011
Mattia Fornasa (IAP Paris/INFN)	2006 – 2009
Marco Taoso (IAP Paris/INFN)	2006 – 2009
Supervision of Master students	
Leon Kamermans (U. of Amsterdam)	2022 – 2023
Renske Wierda (U. of Amsterdam)	2022 – 2023
Ismeni Andrianou (U. of Amsterdam)	2022 – 2023
Roberto Caiozzo (U. of Amsterdam)	2022 – 2023
Andre Couto (U. of Amsterdam)	2022 – 2023
Thomas Spieksma (U. of Amsterdam)	2021 – 2022
Theophanes Karydas (U. of Amsterdam)	2021 – 2022
Julien Manshanden (U. of Amsterdam, with D. Gaggero)	2017 – 2018
Djoeke Schoonenberg (U. of Amsterdam)	2014 – 2015
Veerle Tammer (U. of Amsterdam)	2014 – 2015
Jaco de Swart (U. of Amsterdam, with Jeroen van Dongen)	2013 – 2014
Mark Wanders (U. of Amsterdam)	2013 – 2014
Anna Gimbrere (U. of Amsterdam, with Ben Freivogel)	2013 – 2014
Margot Brouwer (U. of Amsterdam)	2012 – 2013
Vincent Bizouard (E. Polytechnique, Paris)	2011
Aion Viana da Escossia (E. Polytechnique, Paris)	2009
Supervision of PhD research projects	
Eun-Joo Ahn (U. of Chicago)	2004 – 2005
Edoardo Rozo (U. of Chicago)	2004 – 2005
External examiner for PhD defenses of	
Mathis Gerdes (UvA)	2025
Uddipta Bhardwaj (UvA)	2025
Benjamin Kurt Miller (UvA)	2025
Noemi Anau Montel	2024
Dion Noordhuis	2024
Maurice Weiler (UvA)	2023
Joran Angevaare (UvA)	2023
Geert Raaijmakers (UvA)	2022
Dimitrios Kantzas (UvA)	2022
Ariane Dekker (UvA)	2022
Ruben Oncala Mesa (UvA)	2021
Hong Sheng Chia (UvA)	2020
Thomas Edwards (UvA)	2019
Gabriele Sabato (UvA)	2019
Nicola Bellomo (U. of Barcelona)	2019
Pieter Alexander Breur	2018
Jelle Albers (Nikhef)	2018
Priscilla Pani (Nikhef)	2014
Sofia Sivertsson (U. of Stockholm)	2012
Giorgio Arcadi (SISSA, Italy)	2012
Daniel Cumberbatch (U. of Oxford)	2009

Teaching

MSc course “Astroparticle Physics”, U. of Amsterdam, NL	2019 – present
MSc course “GRAPPA Student seminar”, U. of Amsterdam, NL	2016 – present
Coordinator honours programme in Physics and Astronomy, U. of Amsterdam, NL	2017 – 2019
BSc course “Astroparticle Physics”, AUC Amsterdam, NL	2018 – present
BSc course “ITFA Workshop: Introduction to Theoretical Physics”, U. of Amsterdam, NL	2013 – 2017
MSc course “Particle Cosmology”, U. of Amsterdam, NL	2013 – 2015
MSc course “Astroparticle Physics”, U. of Amsterdam, NL	2011 – 2013
BSc course “ITFA Workshop: Dark Matter from Experiments to Theory”, U. of Amsterdam, NL	2012 – 2013
Graduate course on “Particle Astrophysics”, ITP, U. of Zurich, Switzerland	2009 – 2011
BSc lectures “Physics of the Universe”, ITP, U. of Zurich, CH	2009 – 2010
Graduate lectures on “Dark Matter”, Univ. of Rome “Roma Tre”, Italy	2010
Graduate lectures on “Indirect DM signatures and astrophysical sources”, Ecoles de Physique des Houches, France	2007
Graduate lectures on “Exotic non-thermal processes”, Ecoles de Physique des Houches, France	2005
MSc lectures on Computer Science, Institut Universitaire de Technologie, Paris, France	2002 – 2003

Public Outreach

• Founder and chair, yearly Cosmos Science Festival	09/2022 - present
• Founder and chair, yearly Cosmos Prize for science outreach	09/2019 - present
• Public lecture at CERN, CH	06/23
• Live TV interviews for France24, Paris FR (English and French)	04/23
• Public lecture at EPFL, CH (French)	04/23
• Radio Interview RTS Lausanne, CH (French)	04/23
• Public lecture Parc Galea, Corsica (in French)	09/2022
• Public lecture Royal Institution, London UK	11/2021
• Radio Interview Rai Radio3 Scienza (in Italian)	06/2019
• TV interview TG5 La Lettura (in Italian)	06/2019
• Video interview Repubblica.tv (in Italian)	06/2019
• Speaker at TEDxLakeComo (in Italian)	2018
• Columnist for the Italian newspaper “La Repubblica”	2017-2021
• <i>Nature</i> podcast interview	2018
• Author of popular science books in different languages (see below)	2018-present
• Radio Interview “Miracolo Italiano”, Rai Radio Due, Italy	06/17
• Featured in weekly magazine “Venerdi di Repubblica”, Italy	05/17
• Public conference, Scuola Normale di Pisa, Italy	12/15
• Radio interview “Ciel et Espace” magazine, Paris, France	11/15
• Public debate at Amsterdam Academic Club	01/15
• Public lecture at West Cape University, Cape Town South Africa	11/14
• Article for OUP Blog on occasion of CERN’s 60th anniversary	09/14
• Public lecture at Royal Institution, London UK	05/14
• Public lecture at Perimeter Institute, Waterloo, Ontario, Canada	05/14
• Alfred Russel Wallace Lecture, Cafe de Rumite, Amsterdam	12/13
• TV Interview for Al Jazeera	12/13
• World Science Festival Amsterdam, Round table speaker	10/13
• Interview for “New Scientist”	09/13
• Interview for the <i>Jodcast</i> , U. of Manchester’s Jodrell Bank podcast	6/11
• Article <i>Matière Noire: effervescence autour des détecteurs</i> , La Recherche	09/10
• Interview <i>A-t-on trouvé des particules de matière noire?</i> , La Recherche	06/09
• Public lecture <i>La pâle lueur de la matière noire</i> , Museum de Nantes	03/09
• Radio Interview, Alternantes FM	03/09
• Public lecture at the Institut d’ Astrophysique de Paris, France	03/08
• <i>Dov’è e cos’è la Materia Oscura?</i> , Le Stelle	10/07

Selected Colloquia, Invited Lectures, and Conferences

• Colloquium, Leiden Observatory, Leiden NL	03/26
• Colloquium, ITC Harvard, Cambridge MA USA	03/26

• Colloquium, Santa Fe Institute, Santa Fe NM USA	03/26
• Colloquium, University of Zurich, Zurich CH	03/26
• Colloquium, University La Sapienza, Rome IT	03/26
• Colloquium, RWTH Aachen, Aachen DE	02/26
• Invited Talk, ‘Cosmic Collisions’, Abu Dhabi UAE	01/26
• Invited Talk, DPG Fall Meeting ‘100 years of Quantum Physics’, Gottingen DE	01/26
• Colloquium, IFPU Trieste IT	04/25
• Colloquium, Max Planck Institute for Gravitational Physics AEI, Berlin DE	04/25
• Invited Talk, ‘GEMMA-2’ Conference, Rome IT	09/24
• Summary Talk, ‘TeVPA 2024’ Conference, Chicago USA	08/24
• Colloquium, Dept. of Physics, Yale U., CT USA	04/24
• Colloquium, Dept. Physics and Astronomy, Stony Brook U., NY USA	03/24
• Colloquium, Dept. of Physics, Columbia U., NY USA	03/24
• Invited Talk, ‘BHs and Cosmology’, Bahamas	03/24
• Colloquium, LNS MIT, Cambridge MA USA	02/24
• ITC Luncheon, Harvard U., Cambridge MA USA	02/24
• Seminar, Theoretical Physics in Oxford, UK	11/23
• Invited talk, Nobel Symposium on DM, Stockholm SE	08/23
• Plenary Talk, Dark side of the Universe Kigali, Rwanda	07/23
• Graduate School, Erice, Italy	06/23
• Concluding remarks EuCAPT Symposium, CERN	05/23
• Physics and Astronomy Colloquium Uni Bologna, Italy	05/23
• Physics Colloquium Uni Heidelberg, Germany	04/23
• Cosmology Colloquium Scuola Normale di Pisa, Italy	04/23
• Plenary talk ICHEP conference, Bologna IT	07/22
• Physics Colloquium, ‘La Sapienza’ U., Rome IT	07/22
• Plenary talk Haraeus Workshop, Royal Astron. Soc. London UK	11/21
• DESY Particle and Astroparticle Physics Colloquium, Hamburg DE	06/21
• DESY Colloquium, Zeuthen DE	04/21
• Invited talk at American Astronomical Society meeting, St Louis MO, USA	06/19
• Aspen Institute for Physics Workshop “Dark Matter at the crossroads”, Aspen CO, USA	06/19
• ICCUB colloquium, ICCUB Barcelona, Spain	05/19
• Invited talk Dutch Multimessenger Retreat Workshop, Dalfsen NL	12/18
• Plenary talk SLAP meeting, London UK	12/18
• Plenary talk “Physics and the Dark Side”, Oxford UK	11/18
• Concluding remarks at TeV Particle Astrophysics 2018, Berlin DE	6/18
• Plenary talk at “Cosmic Puzzles: From the LSS to LSS”, Paris FR	6/18
• Plenary talk at “Astrophysics + MAGIC Workshop, La Palma”, ES	5/18
• Plenary talk at “Frontier Objects in Astro and Particle Physics Workshop”, Vulcano, IT	5/18
• Plenary talk at “Gravitational waves, black holes and fundamental physics” Malta	1/18
• Concluding remarks “Accelerating the Search for DM with ML”, Lorentz Center, NL	1/18
• Plenary talk, “Topical Workshop on Dark Matter”, IAS Singapore	11/17
• Plenary talk, “Quantum Gases, Fund. Interactions, and Cosmology” Pisa IT	10/17
• Plenary talk, IDPASC Meeting, Braga P	05/17
• Plenary talk, XLV International Meeting on Fundamental Physics, Granada ES	04/17
• Review talk on dark matter annual Physics@FOM conference, Veldhoven NL	09/16
• Concluding remarks, TeVPA conference at CERN	09/16
• Graduate lecture at Dutch Research School of Theoretical Physics	01/16
• Plenary talk, Bruno Touschek Memorial Lecture, Frascati, IT	12/15
• Opening review talk, “prospects in low-mass dark matter”, MPI DE	12/15
• Plenary talk, European Committee for Future Accelerators, CERN CH	11/15
• Seminar at EPFL, Versoix CH	11/15
• SOC chair, TeVPA Tokyo, Japan	10/15
• Plenary talk at ‘CosmoCruise’	09/15
• Science FOO Camp at Google. Mountain View, CA (USA)	06/15
• Plenary talk at “Alternative Gravity and Alternative Matter”. Heraklion, GR	06/15
• Co-Chair IFT Workshop on Dark Matter. Universidad Autonoma Madrid, Spain	04/15
• Seminar at APC, Paris FR	01/15
• Seminar at College de France, Paris FR	01/15

• Invited plenary talk, Dark Side of the Universe, Cape Town South Africa	11/14
• Graduate lectures at INFN-LNGS, L'Aquila IT	10/14
• Chair, Astroparticle Physics conference, Amsterdam NL	06/14
• Chair Public Symposium "History and Future of DM searches", Amsterdam NL	06/14
• Colloquium, Institute of Astronomy, U. of Cambridge, UK	05/14
• Invited colloquium, Astroph. Dept., American Museum of Natural History	05/14
• Invited plenary talk, <i>Rencontres de Blois</i> , France	05/14
• University of Amsterdam Faculty Colloquium Academic Highlights	03/14
• Invited presentation at ATLAS Collaboration meeting, CERN	02/14
• Joint Astronomy Colloquium, ESO Garching DE	12/13
• Plenary Speaker, Kavli Prize Event, Royal Society, London UK	10/13
• Lecture, London International Youth Science Forum, London UK	07/13
• Organizer, 2-months KITP workshop, Santa Barbara CA	April to June 2013
• Seminar, Theory group @ NIKHEF, Amsterdam NL	04/2013
• Plenary talk, ATLAS-SUSY group workshop, NIKHEF, Amsterdam NL	04/2013
• Amsterdam-Paris-Stockholm meeting in Stockholm, Sweden	03/2013
• Plenary talk, XV International Workshop on Neutrino Telescopes, Venice, Italy	03/13
• Review talk at Amsterdam-Paris-Stockholm meeting, Stockholm, Sweden	03/13
• Concluding remarks, TeVPA Mumbai, India	12/12
• Plenary talk, CTA-Link meeting, Buenos Aires, Argentina	11/12
• Plenary talk, NNV meeting, Lunteren, NL	10/12
• Summary Talk, IDM 2012, Chicago USA	7/12
• Colloquium, U. of Groningen NL	4/12
• Colloquium, U. of Utrecht, NL	3/12
• Seminar at DAMTP, Cambridge UK	2/12
• Seminar at King's College, London UK	1/12
• 1 week scientific visit at Imperial College, London UK	1/12
• Seminar at Obs. de Geneve, CH	1/12
• Seminar at EPFL, Basel, CH	1/12
• Graduate Lectures, IDPASC Dark Matter School, Evora PT	12/11
• Colloquium, U. of Innsbruck, Austria	12/11
• Organizer, Dark Workshop at the Galileo Galilei Institute, Italy	10/11
• Welcome address, TeVPA11 Workshop, Stockholm U., Sweden	8/11
• Convener "Astroparticle Phys.", HEP Europhys. Conference, Grenoble	7/11
• "Key participant", CERN Theory Institute DMUH11, Geneva CH	7/11
• Graduate Lectures, Dublin Summer School DIAS/UCD, Dublin IE	7/11
• Invited plenary talk, WIMPs/Axion Patras Workshop, Mykonos GR	6/11
• Invited plenary talk, Royal Astronomical Society Meeting, Llandudno UK	4/11
• Seminar at LLR, E. Polytechnique, Saclay, France	3/11
• Seminar at ICC, U. of Barcelona, Spain	3/11
• Seminar at Obs. of Brera, Milano, Italy	2/11
• Invited plenary talk, <i>DISCRETE 2010</i> , U. of Rome	12/10
• Seminar at Caltech, Pasadena CA, USA	11/10
• Seminar at UCI, Irvine CA, USA	11/10
• Seminar at UCLA, Los Angeles CA, USA	11/10
• Invited plenary talk, <i>Darkness visible</i> , IoA Cambridge UK	08/10
• Graduate lectures at ICTP school, Trieste Italy	07/10
• Invited Plenary Talk, <i>Electron-Nucleus Scattering</i> , Elba Island	06/10
• Colloquium, Max-Planck-Institute for Physics, Munich, Germany	06/10
• Invited Plenary Talk, <i>Neutrino 2010</i> , Athens, Greece	06/10
• Seminar at LAPP, Montpellier, France	06/10
• Seminar at ULB, Bruxelles, Belgium	04/10
• Graduate lectures on Particle Astrophysics, U. of Roma 3, Rome Italy	04/10
• Invited Talk, IOP meeting, Imperial College. London UK	04/10
• Joint THC/APP talk, University of Amsterdam NL	03/10
• Joint Cosmology Seminar, ICTP Trieste, Italy	03/10
• Invited Talk, Workshop on future ACTs, Obs. de Paris	12/09
• 1 week-visit to Univ. Autonoma, Madrid, Spain	11/09
• Invited Plenary Talk, COSMO09 CERN, CH	09/09

• Welcome address, TeVPA09 Workshop, Stanford USA	07/09
• Physics/Astronomy Colloquium, UCSC, USA	06/09
• ACKS Seminar, SLAC Stanford USA	06/09
• 1-month visit to KIPAC Stanford USA	06/09
• Seminar, U. of Rome "La Sapienza". Rome, Italy	05/09
• Plenary talk, RICAP 09 Rome, Italy	05/09
• Concluding remarks TANGO in Paris, France	05/09
• Seminar, CfA Harvard U., USA	03/09
• ITC Luncheon, CfA Harvard U., USA	03/09
• Seminar, Ohio State U., Columbus OH, USA	03/09
• Invited talk, CERCA, Cleveland OH, USA	03/09
• Invited talk, GGI Florence, Italy	02/09
• Public lecture, Museum de Nantes	03/09
• Concluding Remarks at TeVPA08 workshop in Beijing, China	09/08
• Seminar, Observatory of Shanghai, China	09/08
• Invited Plenary talk, DESY Theory Workshop	09/08
• Invited plenary talk, PASCOS'08, Perimeter Inst., Canada	06/08
• Invited talk, Substructures Workshop, Perimeter Inst., Canada	06/08
• Seminar, U. of Zürich, CH	05/08
• Seminar, Dept. of Phys., U. of Stockholm, Sweden	05/08
• Invited talk, PONT d'Avignon, France	04/08
• 1-month visit and seminar at the Universidad Autonoma, Madrid, Spain	03/08
• Public lecture at the Institut d'Astrophysique de Paris, France	03/08
• Invited review talk, 5th ILIAS meeting, Jaca, Spain	02/08
• Seminar, LPT Orsay, France	02/08
• Seminar, U. of Oxford, UK	12/07
• Chair of the LOC and SOC, TeVPA'07 Venice, Italy	08/07
• Invited Plenary Talk, at Lepton-Photon, Daegu, Korea	07/07
• Plenary talk, Cosmo-LHC workshop, CERN	07/07
• Invited Talk, SciNeGHE'07 Rome Italy	06/07
• Seminar, DESY, Hamburg	04/07
• Lectures at the Les Houches School	03/07
• Review talk, DM Visitors Program, CERN, Switzerland	03/07
• Invited talk, CTA Meeting Paris, France	03/07
• Seminar, Tuebingen U., Germany	03/07
• GLAST Symposium, Stanford, CA	01/07
• Colloquium, Arcetri Obs., Firenze. Italy	01/07
• Seminar, CEA Saclay, France	11/06
• Invited talk, IDM 2006, Rhodes, Greece	09/06
• Rapporteur talk, TeVPA II, Madison, WI	08/06
• Invited rev. talk, BCN06, Barcelona, ES	07/06
• Seminar, KIPAC, Stanford, CA	06/06
• Chair of DM Parallel Session, SUSY 06, Newport Beach, CA	05/06
• Seminar, UC Irvine, CA	05/06
• KITP 'long workshop' AGN06, Santa Barbara, CA	05/06
• Plenary Talk, Melchiorri Memorial C., Rome, Italy	04/06
• Seminar, Scuola Normale, Pisa, Italy	03/06
• Seminar, U. of Udine, Italy	03/06
• Seminar, MPA Heidelberg, Germany	02/06
• Seminar, Univ. Libre, Bruxelles, Belgium	01/06
• Dark Matter review at the Antares workshop, Ravenna, Italy	11/05
• Invited talk, ENTAPP Trieste, Italy	10/05
• Lectures, Les Houches School, France	09/05
• Overview talk, 'TeV Particle Astrophysics', Fermilab, IL, USA	07/05
• Invited talk, INFN Particle Astrophysics meeting, Italy	04/05
• Seminar, Tor Vergata U., Rome Italy	04/05
• Seminar, ISCAP, Columbia U. NY, USA	03/05
• Colloquium, Fermilab IL, USA	02/05
• Seminar, NW U. IL, USA	01/05

• Seminar, SLAC, Stanford CA, USA	01/05
• Seminar, T-8 group, Los Alamos NM, USA	01/05
• Seminar, IAS, Princeton NJ, USA	12/04
• Seminar, Caltech, Pasadena CA, USA	11/04
• Invited talk, Tamura Symposium, Austin TX USA	11/04
• Seminar, U. of Florida, Gainesville, FL, USA	10/04
• Seminar, OSU, Columbus, OH, USA	10/04
• Seminar, University of Zurich, Switzerland	07/04
• Seminar, Instituto Superior Tecnico, Lisbon, Portugal	06/04
• Talk at 'Dark Side of the Universe', Ann Arbor, MI, USA	05/04
• Seminar, University of Madison, WI, USA	04/04
• Seminar, UCLA, Los Angeles CA, USA	03/04

Publications

Books

- **Sospesi tra due infiniti**, Gianfranco Bertone, Longanesi (2019). Winner of the “*Rhegium Julii*” prize for the best non-fiction book in 2019.
English translation “*A tale of two infinities*” published by Oxford University Press (2021)
Dutch translation “*Tussen twee oneindigheden*” published by New Scientist (2022)
French translation “*Entre deux Infinis*” published by Quanto EPFL Press (2023).
- **Behind the Scenes of the Universe: from the Higgs to Dark Matter**, Gianfranco Bertone, Oxford University Press (2013). Winner of the “*Ciel et Espace*” prize for the best Astronomy book in 2015.
Dutch translation “*Achter de schermen van het heelal*” published by Prometheus (2014)
French translation “*Le mystère de la matière noire*” published by Dunod (2014).
Italian translation “*Dietro le quinte dell’universo*” published by Carocci (2018)
App version for iPhone and iPad, available on the iTunes store. Developed in collaboration with OtherMedia (London).
- **Particle Dark Matter: Observations, Models and Searches**, Edited by Gianfranco Bertone, Cambridge University Press (2010). Contributors: G. Bertone, J. Silk, B. Moore, J. Diemand, J. Bullock, M. Kaplinghat, L. Strigari, Y. Mellier, D. Merritt, J. Bekenstein, G. Gelmini, P. Gondolo, J. Ellis, K. Olive, G. Servant, J. L. Feng, P. Sikivie, M. Shaposhnikov, T. Plehn, G. Polesello, M. Battaglia, M. E. Peskin, K. Kong, K. Matchev, F. Boudjema, J. Edsjo, D. G. Cerdeno, A. Green, R. Bernabei, P. Belli, N. Fornengo, G. Gerbier, J. Gascon, E. Aprile, L. Baudis, N. Spooner, S. Asztalos, L. Bergstrom, F. Halzen, D. Hooper, P. Salati, F. Donato, S. Profumo, P. Ullio, K. Jedamzik, M. Pospelov.
- **Treccani - Enciclopedia Italiana di Scienza, Lettere e Arti**, XI Appendice, voce Universo.

Papers in Refereed Journals

1. **Particle Physics and Gravitational Waves as complementary windows on the Universe**, S. D. Bass *et al.*, including G. Bertone, arXiv:2603.25578 [astro-ph.CO].
2. **Dark matter mounds from the collapse of supermassive stars: a general-relativistic analysis**, R. Caiozzo, G. Bertone, P. Ullio, R. Vicente, B. J. Kavanagh and D. Gaggero, Phys. Rev. D **113** (2026), 063052 [arXiv:2512.09985 [gr-qc]].
3. **Measuring the neutron star equation of state from EMRIs in dark matter environments with LISA**, T. K. Karydas and G. Bertone, arXiv:2512.10855 [gr-qc].
4. **Mass and spin coevolution of black holes inspiralling through dark matter**, T. K. Karydas, R. Vicente and G. Bertone, Phys. Rev. D **113** (2026), 043057 [arXiv:2510.13604 [gr-qc]].
5. **Sequential simulation-based inference for extreme mass ratio inspirals**, P. S. Cole, J. Alvey, L. Speri, C. Weniger, U. Bhardwaj, D. Gerosa and G. Bertone, Phys. Rev. D **113** (2026), 063030 [arXiv:2505.16795 [gr-qc]].
6. **Fully Relativistic Treatment of Extreme Mass-Ratio Inspirals in Collisionless Environments**, R. Vicente, T. K. Karydas and G. Bertone, Phys. Rev. Lett. **135** (2025), 211401 [arXiv:2505.09715 [gr-qc]].
7. **The Science of the Einstein Telescope**, A. Abac *et al.*, including G. Bertone JCAP **03** (2026), 081 [arXiv:2503.12263 [gr-qc]].
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9. **Legacy of boson clouds on black hole binaries**,
G. M. Tomaselli, T. F. M. Spieksma and G. Bertone,
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10. **Dark matter, black holes, and gravitational waves**,
G. Bertone,
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11. **Dark Matter Mounds: towards a realistic description of dark matter overdensities around black holes**,
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12. **Revisiting Primordial Black Hole Capture by Neutron Stars**,
R. Caiozzo, G. Bertone and F. Kühnel,
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13. **The resonant history of gravitational atoms in black hole binaries**,
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arXiv:2403.03147 [gr-qc].
14. **Sharpening the dark matter signature in gravitational waveforms II: Numerical simulations with the NbodyIMRI code**,
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Phys. Rev. D **111** (2025), 063070 [arXiv:2402.13053 [gr-qc]].
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18. **Perspectives on fundamental cosmology from Low Earth Orbit and the Moon**,
G. Bertone, O. L. Buchmueller and P. S. Cole,
npj Microgravity **9** (2023), 10 [arXiv:2302.03351 [astro-ph.CO]].
19. **Disks, spikes, and clouds: distinguishing environmental effects on BBH gravitational waveforms**,
P. S. Cole, G. Bertone, A. Coogan, D. Gaggero, T. Karydas, B. J. Kavanagh, T. F. M. Spieksma and G. M. Tomaselli,
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25. **A next-generation liquid xenon observatory for dark matter and neutrino physics**,
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27. **EuCAPT White Paper: Opportunities and Challenges for Theoretical Astroparticle Physics in the Next Decade**,
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28. **Measuring the dark matter environments of black hole binaries with gravitational waves**,
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31. **Towards constraining warm dark matter with stellar streams through neural simulation-based inference**,
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32. **Detecting dark matter around black holes with gravitational waves: Effects of dark-matter dynamics on the gravitational waveform**,
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35. **Gravitational wave probes of dark matter: challenges and opportunities**,
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38. **“Fundamental Physics with the Square Kilometer Array,”**
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39. **“A new era in the search for dark matter,”**
G. Bertone and T. Tait, M.P.,
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40. **“Black holes, gravitational waves and fundamental physics: a roadmap,”**
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41. **“Merger rate of a subdominant population of primordial black holes,”**
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 45. **“Implications of hydrodynamical simulations for the interpretation of direct dark matter searches,”**
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 46. **“How Dark Matter Came to Matter,”**
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