

Gianfranco Bertone – CV

CONTACT	<i>Address:</i> Institute for Theoretical Physics University of Amsterdam Science Park 904, Postbus 94485 1090 GL Amsterdam, NL	<i>Tel.:</i> +31 20 525 7658 <i>E-mail:</i> g.bertone@uva.nl <i>Homepage:</i> http://gianfrancobertone.net
PRESENT POSITIONS	Spokesperson Amsterdam Center of Excellence in Gravitation and Astroparticle Physics (GRAPPA) Associate Professor (Hoofddocent UHD1) Institute of Physics, U. of Amsterdam, NL Permanent CNRS Researcher (on leave since 2009) Institut d'Astrophysique de Paris, France	Mar 2014 – present Oct 2011 – present Apr 2006 – present
PREVIOUS POSITIONS	Visiting Professor Institute for Theoretical Physics, U. of Zürich, CH Coordinator of the Theoretical Physics group Institut d'Astrophysique de Paris, France Helmholtz Association IVF Fellow Department of Physics, U. of Padova, Italy Research Associate Particle Astrophysics Center, Fermilab, Chicago USA Associate Fellow at Center for Cosmological Physics, U. of Chicago	Oct 2009 – Oct 2011 Nov 2007 – Sep 2009 Oct 2005 – Mar 2007 Oct 2003 – Sep 2005
EDUCATION	PhD in Astrophysics , with honours (<i>félicitations du Jury</i>) Institut d'Astrophysique de Paris. Advisors: G. Sigl and J. Silk Marie Curie visiting PhD student University of Oxford, UK Master (DEA) in Theoretical Astrophysics and Cosmology Observatoire de Paris-Meudon, , Paris, France "Laurea" in Theoretical Physics, full marks U. of Rome "La Sapienza", Italy	Sep 2000 – Sep 2003 Sep 2000 – Sep 2001 Sep 1999 – Aug 2000 Sep 1993 – July 1999

PROFESSIONAL
ACTIVITIES

Editor-in-chief , <i>Physics of the Dark Universe</i> , Elsevier	2011 - present
Member , Physics Research Committee, Deutsches Elektronen-Synchrotron DESY	2017-present
Topic Leader , “Dark matter and primordial Black Holes” COST Action CA16104 <i>Gravitational waves, black holes and fundamental physics</i> (GWVerse)	2017-present
Member , Committee for Astroparticle physics in the Netherlands (CAN)	2013 - present
Member , Scientific Committee, International School on AstroParticle Physics (ISAPP) - European Doctorate School	2014 - present
Member , Astroparticle Commission, Int. Union of Pure and Appl. Phys. (IUPAP)	2012 - 2014
Member , External Advisory Committee, International Doctorate in Particle Physics, Astrophysics and Cosmology (IDPASC)	2014 - present
Member , Young Academy of Europe (YAE)	2012 - present
Member Evaluation Panel NWO Vidi Grants in Physics	2014
Chair Faculty Search committee, U. of Amsterdam	2012-2013, 2017-2018
Short Term Associate , ATLAS collaboration at CERN	2014 - 2015
Coordinator of Dark Matter studies, French network ‘GdR Terascale’	2007 - 2011
Coordinator of Indirect Dark Matter searches, Spanish network ‘MultiDark’	2010 - present
Coordinator of the Theoretical Physics group, Institut d’Astrophysique de Paris	2007 - 2009
Member of the <i>Conseil de Laboratoire</i> , Institut d’Astrophysique de Paris	2009 - 2011
Associate scientist , Fundacao para a Ciencia e a Tecnologia, Portugal	2001 - 2002
Member , European Network “Supersymmetry and Early Universe”	2000 - 2002
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 pour la Recherche, France	
NWO, Organisation for Scientific Research, Netherlands	
Helmholtz Alliance for Astroparticle Physics, Germany	
Manuscript referee , <i>Nature</i> , <i>Science</i> , <i>Phys.Rev.Lett.</i> , <i>Phys.Rev. D.</i> , <i>JCAP</i> , <i>Mon.Not.Roy.Astron.Soc.</i> , <i>Astrophys. Journal</i> , <i>Astron. & Astrophys.</i> , <i>JHEP</i> and <i>Phys.Lett. B</i>	2000 - present

GRANTS AND
FELLOWSHIPS

PI, Delta Institute for Theoretical Physics grants	2013, 2016
• <i>Two postdoctoral positions (joint with A. Boyarsky, Leiden)</i>	
PI, Institute of Physics grants	2017
• <i>Postdoctoral position (~ 140 k€)</i>	
PI, ERC Starting Grant <i>WIMPS Kairos</i>	2011-2016
• Starting Independent Researcher Grant, European Research Council (1.3 M€)	
Scientist-in-charge, Marie Curie fellowships	2009-2011, 2014-2016
• <i>IEF-235878 (F. Iocco) and PIIF-GA-2013-628997 (J. Gaskins)</i>	
Co-Investigator, FOM Program	2013 - 2018
• <i>The missing universe: What is the subatomic constituent of dark matter? (2 M€)</i>	
Co-Investigator, NASA Fermi Guest Investigator Cycle II Program	2009 - 2010
• <i>Anisotropy and energy spectrum of the GRB as probes of DM and astrophysics</i>	
ANR project <i>ToolsDMColl</i>	2008 - 2011
• Participating Institutions: LAPP, LAPTh, LPSC & IAP, PI: Fawzi Boudjema	
• Title: <i>Tools for Dark Matter and New Physics at Colliders and in Astrophysics</i>	
CNRS Physique des 2 Infinis grant (with M. Cirelli) , 1 postdoctoral position	2008 - 2010
Helmholtz Association of National Research Centres Fellowship	2005 - 2007
Supported by Fermilab, DEAC02-76CH03000, and by NASA, NAG5-10842	2003 - 2005
Allocation de Recherche (French Government PhD fellowship)	2000 - 2003
Marie Curie Visiting PhD Student at the U. of Oxford	2000 - 2001

ORGANIZATION OF
CONFERENCES,
SEMINARS AND
JOURNAL CLUBS

Chair of the conference series TeV Particle Astrophysics , held at	
Fermilab, Batavia IL, USA	2005
U. of Wisconsin, Madison WI, USA	2006
Istituto Veneto, Venice, Italy	2007
IHEP, Beijing, China	2008
SLAC, Stanford U., Palo Alto CA, USA	2009
IAP Paris, France	2010
U. of Stockholm, Sweden	2011
TIFR Mumbai, India	2012
University of California, Irvine, USA	2013
University of Amsterdam, NL	2014
University of Tokyo, Japan	2015
CERN	2016
Ohio State University, USA	2017
Berlin, Germany	2018

Organizer , yearly Amsterdam-Paris-Stockholm meetings	2012-present
Organizer , Lorentz Center Workshop “Accelerating the Search for Dark Matter with AI” NL	01/18
Organizer , “Statistical Challenges in the Search for Dark Matter” at Banff Int. Res. Station	03/18
Organizer , “GRAPPA@5” Symposium, Amsterdam NL	06/2017
Organizer , “ISAPP Doctoral School 2017”, Texel NL	06/2017
Organizer , “Big Data Tools for Physics and Astronomy” workshop, Amsterdam NL	06/2017
Organizer , “Dark Matter at the LHC” workshop, Amsterdam NL	03/2016
Member , Local Organizing Committee, ICRC, The Hague	07/2015
Organizer , “Trends in Theory” symposium of the DRSTP, Dalfsen NL	05/2015
Organizer , IFT Program in Particle Physics, Astroparticles and Cosmology, Madrid	04-05/2015
Chair Symposium “History and Future of Dark Matter”, Amsterdam	06/2014
Member , International Advisory Committee, <i>International Dark Matter</i> series	2008 - present
Organizer , UvA Institute of Physics Colloquia	2012-present
Organizer , weekly GRAPPA Club meetings	2012-present
Member , International Advisory Committee, Origin of Mass, U. of Southern Denmark	2013
Organizer , KITP workshop “Hunting for Dark Matter”, Santa Barbara, USA	2013
Organizer CosmoStat2013, Banff, Canada	2013
Organizer , Dark Universe Workshop, GGI Florence, Italy	2011
Convener , <i>Astroparticle Physics</i> session, EPS-HEP meeting, Grenoble FR	2011
Organizer , 2011 Aspen Winter Workshop, Aspen Co, USA	2011
Organizer , “Dark Matter All Around” Workshop, IAP Paris	2010
Chair , CTS Workshop “Dark Matter in the Sky and Underground”, ITP Zurich	2010
Co-Chair , “ γ in \mathcal{Z} ” Workshop, ITP Zurich	2009
Co-Chair , TANGO in PARIS Workshop, IAP Paris France	2008
Organizer , “Café GReCO” weekly meetings at IAP	2007 - 2009
Organizer , “Caffé Teorico” meetings at INFN, Padova	2005 - 2006
Organizer , Fermilab Astrophysics Seminars	2004 - 2005

Organizer, Fermilab Astrophysics “Munch” Journal Club meetings

2004 - 2005

ACADEMIC DUTIES **Supervision of postdoctoral fellows**

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

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

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

Priscilla Pani (NIKHEF)	2014
Sofia Sivertsson (U. of Stockholm)	2012
Giorgio Arcadi (SISSA, Italy)	2012
Daniel Cumberbatch (Doctor of Philosophy, U. of Oxford)	2009

TEACHING

U. of Amsterdam, NL	2013-2017
BSc course, “ITFA Workshop: Introduction to Theoretical Physics”	
U. of Amsterdam, NL	2016-2017
MSc course, “GRAPPA Student seminar”	
U. of Amsterdam, NL	2013-2015
MSc course on “Particle Cosmology”	
U. of Amsterdam, NL	2011-2013
MSc course on “Astroparticle Physics”	
U. of Amsterdam, NL	2012-2013
BSc course, “ITFA Workshop: Dark Matter, from Experiments to Theory”	
ITP, U. of Zurich, Switzerland	2009-2011
Graduate course on “Particle Astrophysics”	
ITP, U. of Zurich, Switzerland	2009-2010
BSc lectures on “Physics of the Universe”	
Univ. of Rome “Roma Tre”, Italy	2010
Graduate lectures on “Dark Matter”	
Ecoles de Physique des Houches, France	2007
Graduate lectures on “Indirect DM signatures and astrophysical sources”	
Ecoles de Physique des Houches, France	2005
Graduate lectures on “Exotic non-thermal processes”	
Institut Universitaire de Technologie, Paris, France	2002-2003
MSc lectures on Computer Science	
PUBLIC OUTREACH	
• 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 *A-t-on trouvé des particules de matière noire?*, La Recherche 06/09
- Public lecture *La pâle lueur de la matière noire*, Museum de Nantes 03/09
- Radio Interview, Alternantes FM 03/09
- Public lecture at the Institut d' Astrophysique de Paris, France 03/08
- *Dov'è e cos'è la Materia Oscura?*, Le Stelle 10/07

SEMINARS AND
CONFERENCES

- 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, *Rencontres de Blois*, 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, PASCOS08, 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 dAvignon, France	04/08
• 1-month visit and seminar at the Universidad Autonoma, Madrid, Spain	03/08
• Public lecture at the Institut dAstrophysique 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	
• Seminar, CEA Saclay, France	11/06
• Invited talk, IDM 2006, Rhodes, Greece	09/06
• Rapporteur talk, TeVPA II, Madison, WI	08/08
• 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

BOOKS

Behind the Scenes of the Universe: from the Higgs to Dark Matter, Gianfranco Bertone, Oxford University Press (2013).

- Dutch translation “*Achter de schermen van het heelal*“ published by Prometheus (2014)
- French translation “*Le mystère de la matière noire*” published by Dunod (2014). Winner of the “*Ciel et Espace*” prize for the best Astronomy book in 2015.
- Italian translation “*Dietro le quinte dell’universo*“ published by Carocci (exp. 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)

PAPERS IN REFEREED JOURNALS

1. **“Implications of hydrodynamical simulations for the interpretation of direct dark matter searches,”**
N. Bozorgnia and G. Bertone,
IJMPA, Vol. 32, Issue No. 21
arXiv:1705.05853 [astro-ph.CO].
2. **“How Dark Matter Came to Matter,”**
J. de Swart, G. Bertone and J. van Dongen,
Nature Astron. **1** (2017) 0059
arXiv:1703.00013 [astro-ph.CO].
3. **“Emergent gravity in galaxies and in the Solar System,”**
A. Hees, B. Famaey and G. Bertone,
Phys. Rev. D **95** (2017) no.6, 064019
arXiv:1702.04358 [astro-ph.GA].
4. **“Searching for Primordial Black Holes in the radio and X-ray sky,”**
D. Gaggero, G. Bertone, F. Calore, R. M. T. Connors, M. Lovell, S. Markoff and E. Storm,
Phys. Rev. Lett. **118** (2017) no.24, 241101
arXiv:1612.00457 [astro-ph.HE].
5. **“Accelerating the BSM interpretation of LHC data with machine learning,”**
G. Bertone, M. P. Deisenroth, J. S. Kim, S. Liem, R. Ruiz de Austri and M. Welling,
arXiv:1611.02704 [hep-ph].
6. **“Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $\sqrt{s} = 8$ TeV proton-proton collisions,”**
M. Aaboud *et al.* [jointly with the ATLAS Collaboration],
JHEP **1609** (2016) 175
arXiv:1608.00872 [hep-ex].
7. **“A History of Dark Matter,”**
G. Bertone and D. Hooper,
arXiv:1605.04909 [astro-ph.CO].
8. **“Effective field theory of dark matter: a global analysis,”**
S. Liem, G. Bertone, F. Calore, R. Ruiz de Austri, T. M. P. Tait, R. Trotta and C. Weniger,

JHEP **1609** (2016) 077
arXiv:1603.05994 [hep-ph].

9. **“Dark matter subhalos and unidentified sources in the Fermi 3FGL source catalog,”**
D. Schoonenberg, J. Gaskins, G. Bertone and J. Diemand,
arXiv:1601.06781 [astro-ph.HE].
10. **“Simulated Milky Way analogues: implications for dark matter direct searches,”**
N. Bozorgnia, F. Calore, M. Schaller, M. Lovell, G. Bertone, C. S. Frenk, R. A. Crain, J. F. Navarro, J. Schaye, T. Theuns
arXiv:1601.04707 [astro-ph.CO].
11. **“Simulated Milky Way analogues: implications for dark matter indirect searches,”**
F. Calore, Bozorgnia, N.; Lovell, M.; Bertone, G.; Schaller, M.; Frenk, C. S.; Crain, R. A.; Schaye, J.; Theuns, T.; Trayford, J. W.
arXiv:1509.02164 [astro-ph.GA].
12. **“Dark matter annihilation radiation in hydrodynamic simulations of Milky Way haloes,”**
Schaller, Matthieu; Frenk, Carlos S.; Theuns, Tom; Calore, Francesca; Bertone, Gianfranco; Bozorgnia, Nassim; Crain, Robert A.; Fattahi, Azadeh; Navarro, Julio F.; Sawala, Till; Schaye, Joop
arXiv:1509.02166 [astro-ph.CO].
13. **“A non-parametric method for measuring the local dark matter density,”**
H. Silverwood, S. Sivertsson, P. Steger, J. I. Read and G. Bertone,
arXiv:1507.08581 [astro-ph.GA].
14. **“Global analysis of the pMSSM in light of the Fermi GeV excess: prospects for the LHC Run-II and astroparticle experiments,”**
G. Bertone, F. Calore, S. Caron, R. R. de Austri, J. S. Kim, R. Trotta and C. Weniger,
arXiv:1507.07008 [hep-ph].
15. **“Testing modified Newtonian dynamics in the Milky Way,”** F. Iocco, M. Pato and G. Bertone, arXiv:1505.05181 [astro-ph.GA].
16. **“Dynamical constraints on the dark matter distribution in the Milky Way,”**
M. Pato, F. Iocco and G. Bertone,
arXiv:1504.06324 [astro-ph.GA].
17. **“On the sensitivity of CTA to gamma-ray boxes from multi-TeV dark matter,”**
A. Ibarra, A. S. Lamperstorfer, S. L. Gehler, M. Pato and G. Bertone, arXiv:1503.06797 [astro-ph.HE].
18. **“Evidence for Dark Matter in the Inner Milky Way,”**
F. Iocco, M. Pato and G. Bertone
Accepted for publication on Nature Physics (February 2015)
19. **“Decaying dark matter: the case for a deep X-ray observation of Draco,”**
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