



Valentina Mangano

Curriculum vitae

Personal Information

Nationality Italian
Mother tongue(s) Italian
Other language(s) English
Driving licence B

Education

- 24/10/2018 **Ph.D. in Physics and Astronomy**
thesis title: 'Studies of Some Properties of Hydroxide-Catalysis Bonds'
Supervisors: Prof. Sheila Rowan, Prof. James Hough, Dr. Anna-Maria A. van Veggel
University of Glasgow
University Avenue, Glasgow, G12 8QQ (United Kingdom)
- 20/01/2011 **Masters Degree in Astronomy and Astrophysics**
with a thesis in Experimental Gravitation entitled 'Riduzione dei Dati dell'Accelerometro ISA per la Missione BepiColombo a Mercurio' ('Data Reduction of the ISA Accelerometer for the BepiColombo Mission to Mercury')
Supervisors: Dr. Fulvio Ricci, Dr. Valerio Iafolla
Final Mark: 110/110 cum laude
Università degli Studi di Roma *Sapienza*
Piazzale Aldo Moro 5, 00185 Rome (Italy)
- 30/05/2006 **Bachelor Degree in Physics and Astrophysics**
with a thesis in Cosmology entitled 'Energia Oscura e Misure della Frazione di Massa in Cluster di Galassie' ('Dark Energy and Measurements of the Mass Fraction in Galaxy Clusters')
Supervisor: Dr. Alessandro Melchiorri
Final Mark: 110/110
Università degli Studi di Roma *Sapienza*
Piazzale Aldo Moro 5, 00185 Rome (Italy)
- 08/2002 **Scientific High School Degree**
Final Mark: 100/100
Liceo Scientifico *Lucio Piccolo*
Capo d'Orlando, Messina (Italy)

Work Experience

Research activity

- 01/02/2020-present **Research fellowship n. 84/2019: 'Attenuazione delle Instabilità Parametriche usando Smorzatori Meccanici'**
Dipartimento di Fisica, Università degli Studi di Roma *Sapienza*
Piazzale Aldo Moro 5, 00185 Rome (Italy)
- 01/02/2019-31/01/2020 **Research fellowship n. 136/2018: 'Gravitational Wave search with 3 G detectors'**
Dipartimento di Fisica, Università degli Studi di Roma *Sapienza*
Piazzale Aldo Moro 5, 00185 Rome (Italy)
- 24/09/2012-23/09/2013 **Scholarship in IT, electronic, instrumental and accelerators area at the INFN in Rome**
Istituto Nazionale di Fisica Nucleare (INFN)
Via Enrico Fermi 40, 00044 Frascati, Rome (Italy)

Teaching

- 10/2015-12/2015 **Demonstrator in the P2 physics laboratories**
University of Glasgow
University Avenue, Glasgow, G12 8QQ (United Kingdom)
- 10/2014-03/2015 **Demonstrator in the P2 physics laboratories**
University of Glasgow
University Avenue, Glasgow, G12 8QQ (United Kingdom)

Training

- 25-10-2013 **Graduate Teaching Assistants Statutory Training**
University of Glasgow
University Avenue, Glasgow, G12 8QQ (United Kingdom)
- 19/05/2009-10/07/2009 **Training: 'Segnali aspettati sul Mercury Planetary Orbiter dovuti alle Perturbazioni Non Gravitazionali'**
Supervisor: Dr. Roberto Peron
Istituto di Fisica dello Spazio Interplanetario (IFSI-INAF)
Via del Fosso del Cavaliere 100, 00133 Rome (Italy)
- 2007-2008 **Laboratory Activity: 'Fotometria Infrarossa di Sorgenti Protostellari e Determinazione della loro Luminosità di Accrescimento'**
Supervisor: Dr. Simone Antonucci
INAF - Osservatorio Astronomico di Roma
Via di Frascati 33, 00040 Monteporzio Catone, Rome (Italy)

Conferences / Courses / Seminars

- 28/04/2019-03/05/2019 **Vacuum Fluctuations at Nanoscale and Gravitation: theory and experiments**
Club Hotel Marina Beach, Orosei (Italy)
- 19/02/2019-21/02/2019 **First European Physical Society Conference on Gravitation**
Università degli Studi di Roma *Sapienza*
Piazzale Aldo Moro 5, 00185 Rome (Italy)

- 29/08/2016-01/09/2016 **LVC Meeting 2016**
University of Glasgow, Glasgow (United Kingdom)
- 25/05/2016 **The SUPA 2016 Annual Gathering**
Technology and Innovation Centre, Glasgow (United Kingdom)
- 04/11/2015 **A Celebration of Photonics**
Technology and Innovation Centre, Glasgow (United Kingdom)
- 08/06/2015-12/06/2015 **IMPP and IMPRS Lecture Week**
Crieff (United Kingdom)
- 25/03/2015 **SUPA Annual Meeting 2015**
University of St. Andrews, St. Andrews (United Kingdom)
- 23/03/2015-24/03/2015 **The 6th SU₂P Annual Symposium**
University of St. Andrews, St. Andrews (United Kingdom)
- 28/10/2014 **Space Glasgow Research Conference**
University of Glasgow, Glasgow (United Kingdom)
- 25/08/2014-28/08/2014 **LVC Meeting 2014**
Stanford University, California (USA)
- 25/05/2014-30/05/2014 **Gravitational Wave Advanced Detectors Workshop 2014**
Takayama (Japan)
- 01/09/2013-06/09/2013 **The STFC Introductory Summer School in Astronomy**
Queen Mary University of London, London (United Kingdom)
- 07/07/2013-13/07/2013 **The 20th International Conference on General Relativity and Gravitation and 10th Amaldi Conference on Gravitational Waves**
Uniwersytet Warszawski, Warsaw (Poland)
- 10/06/2013-12/06/2013 **Virgo week**
Virgo Collaboration e CNRS/INFN EGO Consortium
Cascina, Pisa (Italy)
- 15/04/2013-18/04/2013 **School on Gravitational Waves, neutrinos and multiwavelength e.m. observations: the new frontier of Astronomy**
INAF - Osservatorio Astronomico di Roma
Via di Frascati 33, 00040 Monteporzio Catone, Rome (Italy)
- 04/02/2013-07/02/2013 **Virgo week**
Virgo Collaboration e CNRS/INFN EGO Consortium
Cascina, Pisa (Italy)
- 02/05/2011-06/05/2011 **2nd VESF School on Gravitational Wave Data Analysis**
Virgo Collaboration e CNRS/INFN EGO Consortium
Cascina, Pisa (Italy)
- 11/05/2009-15/05/2009 **SIGRAV Graduate School - VIII Edition 'Gravity: where do we stand?'**
Centro di Cultura Scientifica *Alessandro Volta*
Como (Italy)
- 25/03/2009 **Certificate of Participation at the Conference of Dr. Valeria Ferrari entitled 'Onde gravitazionali: i fremiti dello spaziotempo'**
Università degli Studi di Roma *Sapienza*
Piazzale Aldo Moro 5, 00185 Rome (Italy)

Presentations

- 28/04/2019-03/05/2019 **Poster: 'The Archimedes Experiment'**
Vacuum Fluctuations at Nanoscale and Gravitation: theory and experiments
Club Hotel Marina Beach, Orosei (Italy)
- 29/08/2016-01/09/2016 **Poster: 'Non-destructive bond thickness and refractive index values from measurements of the optical reflectivity of hydroxide-catalysis bonds'**
LVC Meeting 2016
University of Glasgow, Glasgow (United Kingdom)
- 23/03/2015-24/03/2015 **Poster: 'Characterisation of the properties of hydroxide-catalysis bonds for use in optical applications'**
The 6th SU₂P Annual Symposium
University of St. Andrews (United Kingdom)
- 26/08/2014 **Talk: 'Studies of some properties of Hydroxide-Catalysis Bonds'**
LVC Meeting 2014
Stanford University, California (USA)
- 07/07/2013-13/07/2013 **Poster: 'Characterization of the Mirror Internal Losses of the Suspended Test Masses by means of an Interferometric Sensor: results on the Virgo+ Payloads and Perspectives'**
The 20th International Conference on General Relativity and Gravitation and 10th Amaldi Conference on Gravitational Waves
Uniwersytet Warszawski, Warsaw (Poland)
- 05/02/2013 **Talk: 'Virgo+ Mirror internal modes characterization: Measurement technique and WE mirror results'**
Virgo week
Virgo Collaboration e CNRS/INFN EGO Consortium
Cascina, Pisa (Italy)

Honours and Awards

- 2017 **Princess of Asturias Award for Technical and Scientific Research**
awarded to R. Weiss, K. S. Thorne, B. C. Barish and the LIGO Scientific Collaboration
- 2017 **Albert Einstein Medal**
awarded to the LIGO Scientific Collaboration and the Virgo Collaboration
- 2017 **RAS Group Achievement Award A**
awarded to the LIGO Scientific Collaboration
- 2017 **Bruno Rossi Prize**
awarded to G. González and the LIGO Scientific Collaboration
- 2016 **Gruber Cosmology Prize**
awarded to R. W. P. Drever, K. S. Thorne, R. Weiss and the LIGO Scientific Collaboration and the Virgo Collaboration
- 2016 **Special Breakthrough Prize in Fundamental Physics**
awarded to R. W. P. Drever, K. S. Thorne, R. Weiss and the LIGO Scientific Collaboration and the Virgo Collaboration

22/06/2012 **Premio di Laurea Tito Maiani**
Accademia Nazionale dei Lincei
Via della Lungara 10, 00165 Rome (Italy)

Memberships

2019-present Membership in the LVC (LIGO-Virgo Collaboration)
2014-2018 Membership in the LSC - GEO600 - University of Glasgow group
2013-2014 Membership in the EGO & Virgo Collaboration
2009-2010 Membership in the Società Italiana di Fisica (SIF)

Certifications

26/03/2013-17/09/2013 **Certificate of Attendance at the individual course of the English language (40 hours)**
Trinity School Accademia Linguistica
Via Vittorio Bachelet 12, 00185 Rome (Italy)

05/2012 **Graded Examination in Spoken English - Grade 8**
Trinity College London
London (United Kingdom)

10/2011-05/2012 **Certificate of Attendance at the ISE II Level Course**
Royal English School
Capo d'Orlando, Messina (Italy)

27/06/2011 **European Computer Driving License - ECDL Core**
IGSOLUTION DS 0225
Capo d'Orlando, Messina (Italy)

Computer Skills

Microsoft Office, LaTeX, MATLAB, Wolfram Mathematica, Origin, Kalei-daGraph, Inkscape.

Publications

- [135] R. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. *The Astrophysical Journal Letters*, 896(2):20pp, Jun 2020. doi: [10.3847/2041-8213/ab960f](https://doi.org/10.3847/2041-8213/ab960f).
- [134] R. Hamburg et al. (Fermi Gamma-Ray Burst Monitor), R. Abbott et al. (The LIGO Scientific Collaboration and the Virgo Collaboration). A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. *The Astrophysical Journal*, 893(2):14pp, Apr 2020. doi: [10.3847/1538-4357/ab7d3e](https://doi.org/10.3847/1538-4357/ab7d3e).
- [133] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration, ASAS-SN Collaboration, DLT40 Collaboration, and F. Salemi). Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. *Physical Review D*, 101(8):24pp, Apr 2020. doi: [10.1103/PhysRevD.101.084002](https://doi.org/10.1103/PhysRevD.101.084002).

- [132] B. P. Abbott et al. GW190425: Observation of a Compact Binary Coalescence with Total Mass $\sim 3.4 M_{\odot}$. *The Astrophysical Journal Letters*, 892(1):24pp, Mar 2020. doi:[10.3847/2041-8213/ab75f5](https://doi.org/10.3847/2041-8213/ab75f5).
- [131] F. Acernese et al. The advanced Virgo longitudinal control system for the O2 observing run. *Astroparticle Physics*, 116:10pp, Mar 2020. doi:[10.1016/j.astropartphys.2019.07.005](https://doi.org/10.1016/j.astropartphys.2019.07.005).
- [130] B. P. Abbott and The LIGO Scientific Collaboration and the Virgo Collaboration. A guide to LIGO–Virgo detector noise and extraction of transient gravitational-wave signals. *Classical and Quantum Gravity*, 37(5):54pp, Feb 2020. doi:[10.1088/1361-6382/ab685e](https://doi.org/10.1088/1361-6382/ab685e).
- [129] B. P. Abbott et al. (The LIGO Scientific Collaboration and The Virgo Collaboration). Model comparison from LIGO–Virgo data on GW170817’s binary components and consequences for the merger remnant. *Classical and Quantum Gravity*, 37(4):43pp, Jan 2020. doi:[10.1088/1361-6382/ab5f7c](https://doi.org/10.1088/1361-6382/ab5f7c).
- [128] S. Avino et al. Progress in a Vacuum Weight Search Experiment. *Physics 2020*, 2(1):13pp, Dec 2019. doi:[10.3390/physics2010001](https://doi.org/10.3390/physics2010001).
- [127] F. Acernese et al. Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. *Physical Review Letters*, 123(23):10pp, Dec 2019. doi:[10.1103/PhysRevLett.123.231108](https://doi.org/10.1103/PhysRevLett.123.231108).
- [126] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model. *Physical Review D*, 100(12):21pp, Dec 2019. doi:[10.1103/PhysRevD.100.122002](https://doi.org/10.1103/PhysRevD.100.122002).
- [125] B. P. Abbott et al. Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. *The Astrophysical Journal*, 886(1):15pp, Nov 2019. doi:[10.3847/1538-4357/ab4b48](https://doi.org/10.3847/1538-4357/ab4b48).
- [124] B. P. Abbott et al. (The LIGO Scientific Collaboration and the Virgo Collaboration). Tests of general relativity with the binary black hole signals from the LIGO–Virgo catalog GWTC-1. *Physical Review D*, 100(10):30pp, Nov 2019. doi:[10.1103/PhysRevD.100.104036](https://doi.org/10.1103/PhysRevD.100.104036).
- [123] B. P. Abbott et al. (LIGO Scientific Collaboration and the Virgo Collaboration). Search for Substellar Mass Ultracompact Binaries in Advanced LIGO’s Second Observing Run. *Physical Review Letters*, 123(16):13pp, Oct 2019. doi:[10.1103/PhysRevLett.123.161102](https://doi.org/10.1103/PhysRevLett.123.161102).
- [122] B. P. Abbott et al. (The LIGO Scientific Collaboration and the Virgo Collaboration), and F. Salemi. Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. *The Astrophysical Journal*, 883(2):10pp, Oct 2019. doi:[10.3847/1538-4357/ab3c2d](https://doi.org/10.3847/1538-4357/ab3c2d).
- [121] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network. *Physical Review D*, 100(6):18pp, Sep 2019. doi:[10.1103/PhysRevD.100.064064](https://doi.org/10.1103/PhysRevD.100.064064).

- [120] B. P. Abbott et al. (The LIGO Scientific Collaboration and the Virgo Collaboration). Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. *The Astrophysical Journal Letters*, 882(2):30pp, Sep 2019. doi:10.3847/2041-8213/ab3800.
- [119] B. P. Abbott et al. (LIGO Scientific and Virgo Collaboration). Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. *Physical Review D*, 100(6):16pp, Sep 2019. doi:10.1103/PhysRevD.100.061101.
- [118] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo during the First and Second Observing Runs. *Physical Review X*, 9(3):49pp, Sep 2019. doi:10.1103/PhysRevX.9.031040.
- [117] B. P. Abbott et al. (The LIGO Scientific Collaboration and the Virgo Collaboration). Directional limits on persistent gravitational waves using data from Advanced LIGO's first two observing runs. *Physical Review D*, 100(6):14pp, Sep 2019. doi:10.1103/PhysRevD.100.062001.
- [116] B. P. Abbott et al. Erratum: "Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data". *The Astrophysical Journal*, 882(1):13pp, Sep 2019. doi:10.3847/1538-4357/ab3231.
- [115] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. *Physical Review D*, 100(2):18pp, Jul 2019. doi:10.1103/PhysRevD.100.024017.
- [114] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. *Physical Review D*, 100(2):27pp, Jul 2019. doi:10.1103/PhysRevD.100.024004.
- [113] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Tests of General Relativity with GW170817. *Physical Review Letters*, 123(1):15pp, Jul 2019. doi:10.1103/PhysRevLett.123.011102.
- [112] B. P. Abbott et al. Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. *The Astrophysical Journal*, 879(1):28pp, Jul 2019. doi:10.3847/1538-4357/ab20cb.
- [111] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. *Physical Review D*, 99(12):20pp, Jun 2019. doi:10.1103/PhysRevD.99.122002.
- [110] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. *Physical Review D*, 99(10):13pp, May 2019. doi:10.1103/PhysRevD.99.104033.
- [109] M. Soares-Santos et al. (The DES Collaboration, the LIGO Scientific Collaboration and the Virgo Collaboration). First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary–Black-hole Merger GW170814. *The Astrophysical Journal Letters*, 876(1):15pp, Apr 2019. doi:10.3847/2041-8213/ab14f1.

- [108] B. P. Abbott et al. Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. *The Astrophysical Journal*, 875(2):20pp, Apr 2019. doi:[10.3847/1538-4357/ab0e8f](https://doi.org/10.3847/1538-4357/ab0e8f).
- [107] B. P. Abbott et al. (The LIGO Scientific Collaboration and the Virgo Collaboration). Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. *The Astrophysical Journal*, 875(2):19pp, Apr 2019. doi:[10.3847/1538-4357/ab0f3d](https://doi.org/10.3847/1538-4357/ab0f3d).
- [106] B. P. Abbott et al. (The LIGO Scientific Collaboration and the Virgo Collaboration). Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. *The Astrophysical Journal*, 875(2):15pp, Apr 2019. doi:[10.3847/1538-4357/ab113b](https://doi.org/10.3847/1538-4357/ab113b).
- [105] B. P. Abbott et al. Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. *The Astrophysical Journal*, 874(2):14pp, Apr 2019. doi:[10.3847/1538-4357/ab0e15](https://doi.org/10.3847/1538-4357/ab0e15).
- [104] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Constraining the p-Mode-g-Mode Tidal Instability with GW170817. *Physical Review Letters*, 122(6):12pp, Feb 2019. doi:[10.1103/PhysRevLett.122.061104](https://doi.org/10.1103/PhysRevLett.122.061104).
- [103] E. Burns et al. (Fermi Gamma-Ray Burst Monitor, the LIGO Scientific Collaboration and the Virgo Collaboration). A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. *The Astrophysical Journal*, 871(1):12pp, Jan 2019. doi:[10.3847/1538-4357/aaf726](https://doi.org/10.3847/1538-4357/aaf726).
- [102] A. Albert et al. (ANTARES collaboration, IceCube Collaboration, the LIGO Scientific Collaboration and the Virgo Collaboration). Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. *The Astrophysical Journal*, 870(2):16pp, Jan 2019. doi:[10.3847/1538-4357/aaf21d](https://doi.org/10.3847/1538-4357/aaf21d).
- [101] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Properties of the Binary Neutron Star Merger GW170817. *Physical Review X*, 9(1):32pp, Jan 2019. doi:[10.1103/PhysRevX.9.011001](https://doi.org/10.1103/PhysRevX.9.011001).
- [100] M. Phelps et al. Strength of hydroxide catalysis bonds between sapphire, silicon, and fused silica as a function of time. *Physical Review D*, 98(12):8pp, Dec 2018. doi:[10.1103/PhysRevD.98.122003](https://doi.org/10.1103/PhysRevD.98.122003).
- [99] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. *Physical Review Letters*, 121(23):13pp, Dec 2018. doi:[10.1103/PhysRevLett.121.231103](https://doi.org/10.1103/PhysRevLett.121.231103).
- [98] B. P. Abbott et al. (The LIGO Scientific Collaboration and the Virgo Collaboration). GW170817: Measurements of Neutron Star Radii and Equation of State. *Physical Review Letters*, 121(16):16pp, Oct 2018. doi:[10.1103/PhysRevLett.121.161101](https://doi.org/10.1103/PhysRevLett.121.161101).
- [97] B. P. Abbott et al. (LIGO Scientific and Virgo Collaboration). Erratum: GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. *Physical Review Letters*, 121(12):2pp, Sep 2018. doi:[10.1103/PhysRevLett.121.129901](https://doi.org/10.1103/PhysRevLett.121.129901).

- [96] B. P. Abbott et al. (LIGO Scientific and Virgo Collaborations). Erratum: Binary Black Hole Mergers in the First Advanced LIGO Observing Run. *Physical Review X*, 8(3):3pp, Sep 2018. [doi:10.1103/PhysRevX.8.039903](https://doi.org/10.1103/PhysRevX.8.039903).
- [95] B. P. Abbott et al. (LIGO Scientific and Virgo Collaboration). Erratum: Tests of General Relativity with GW150914. *Physical Review Letters*, 121(12):3pp, Sep 2018. [doi:10.1103/PhysRevLett.121.129902](https://doi.org/10.1103/PhysRevLett.121.129902).
- [94] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Erratum: First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. *Physical Review D*, 97(12):1pp, Jun 2018. [doi:10.1103/PhysRevD.97.129903](https://doi.org/10.1103/PhysRevD.97.129903).
- [93] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. *Physical Review Letters*, 120(20):13pp, May 2018. [doi:10.1103/PhysRevLett.120.201102](https://doi.org/10.1103/PhysRevLett.120.201102).
- [92] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Full band all-sky search for periodic gravitational waves in the O1 LIGO data. *Physical Review D*, 97(10):31pp, May 2018. [doi:10.1103/PhysRevD.97.102003](https://doi.org/10.1103/PhysRevD.97.102003).
- [91] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Constraints on cosmic strings using data from the first Advanced LIGO observing run. *Physical Review D*, 97(10):20pp, May 2018. [doi:10.1103/PhysRevD.97.102002](https://doi.org/10.1103/PhysRevD.97.102002).
- [90] B. P. Abbott et al. Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, 21(3):57pp, Apr 2018. [doi:10.1007/s41114-018-0012-9](https://doi.org/10.1007/s41114-018-0012-9).
- [89] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. *Physical Review Letters*, 120(9):12pp, February 2018. [doi:10.1103/PhysRevLett.120.091101](https://doi.org/10.1103/PhysRevLett.120.091101).
- [88] B. P. Abbott et al. Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run. *Classical and Quantum Gravity*, 35(6):26pp, Feb 2018. [doi:10.1088/1361-6382/aaaafa](https://doi.org/10.1088/1361-6382/aaaafa).
- [87] B. P. Abbott et al. All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. *Classical and Quantum Gravity*, 35(6):25pp, Feb 2018. [doi:10.1088/1361-6382/aaab76](https://doi.org/10.1088/1361-6382/aaab76).
- [86] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). First Search for Nontensorial Gravitational Waves from Known Pulsars. *Physical Review Letters*, 120(3):pp, Jan 2018. [doi:10.1103/PhysRevLett.120.031104](https://doi.org/10.1103/PhysRevLett.120.031104).
- [85] B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. *Physical Review D*, 96(12):20pp, Dec 2017. [doi:10.1103/PhysRevD.96.122006](https://doi.org/10.1103/PhysRevD.96.122006).
- [84] LIGO Scientific Collaboration and Virgo Collaboration. GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. *The Astrophysical Journal Letters*, 851(2):11pp, Dec 2017. [doi:10.3847/2041-8213/aa9f0c](https://doi.org/10.3847/2041-8213/aa9f0c).

- [83] B. P. Abbott et al. Erratum: “First Search for Gravitational Waves from Known Pulsars with Advanced LIGO”. *The Astrophysical Journal*, 851(1):5pp, Dec 2017. doi:[10.3847/1538-4357/aa9aee](https://doi.org/10.3847/1538-4357/aa9aee).
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Willingness Willingness to accept jobs that require travels and / or transfers in Italy and abroad.

Processing of personal data I hereby authorize the processing of the personal data contained in this CV in compliance with the Italian Personal Data Protection Code (Legislative Decree no. 196 of 30 June 2003).

Capo d'Orlando, 22/07/2020

Signature

