



Dr. Giulio Mazzolo

Senior Communication Consultant

Website: giuliomazzolo.com

ABOUT ME

Senior communication consultant in the space sector and manager of the support office of Copernicus, the European Union's Earth Observation programme. Associate editor at astroEDU, an open-access platform for peer-reviewed astronomy educational activities operating under the auspices of the Office of Astronomy for Education (OAE) of the International Astronomical Union (IAU). Former science communication manager for EU-funded, large-scale, international research projects. Studied science journalism and communication at La Sapienza University (Italy) and at the University of the West of England (UK). Internship in science journalism at the Department of Communication of the European Southern Observatory (ESO). Academic background in Physics and Astronomy, with Ph.D. from the Max Planck Institute for Gravitational Physics (Germany). Former member of the LIGO Scientific Collaboration. I actively contributed to the first detection of gravitational waves, for which I was awarded the 2016 Physics Breakthrough Prize (shared with the LIGO and Virgo collaborations). Former summer student in particle physics at the Fermi National Accelerator Laboratory (Fermilab, USA).

WORK EXPERIENCE

- June 2022 - present **Senior Communication Consultant**
SpaceTec Partners, Munich, Germany
Management of the Copernicus support office
- April 2022 - present **Associate editor at astroEDU**
Office of Astronomy for Education of the International Astronomical Union (IAU)
Co-management of the peer-review process of astronomy educational activities
- June 2017 - May 2022 **Science Communication Manager**
Fondazione ICONS, Lodi, Italy
Communication and dissemination of EU-funded, international research projects
- May - Nov 2021 **Internship in Science Journalism**
European Southern Observatory (ESO), Garching bei München, Germany
Preparation of public communication products and press releases on research in astronomy
- Sept 2016 - Dec 2019 **Editorial Collaborator**
Zanichelli Editore S.p.A., Bologna, Italy
Development of math exercises for school books and digital tools
- Aug 2014 - July 2016 **Mathematics and Physics Teacher**
Ecole d'Humanité, Hasliberg Goldern, Switzerland
Math and physics teaching for the elite Swiss Matura Diploma
- Dec 2013 - July 2014 **Post-doctoral Researcher in Astrophysics**
Max Planck Institute for Gravitational Physics, Hannover, Germany
Research in gravitational-wave astronomy as a member of the LIGO and GEO collaborations

EDUCATION AND TRAINING

- 2022 [Online and media writing](#)
University of the West of England (UWE), Bristol, UK
- 2017 [Postgraduate Programme in Science Journalism and Communication \(*with honours*\)](#)
La Sapienza University, Rome, Italy
- 2017 [Erice International School of Science Journalism](#)
Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Italy
*School supported by the Italian National Institute for Nuclear Physics (INFN),
Le Scienze (Italian edition of Scientific American) and the Enrico Fermi Research
Centre (Italy)*
- 2013 [Doctorate in Physics](#)
Max Planck Institute for Gravitational Physics, Hannover, Germany
International Max Planck Research School on Gravitational-Wave Astronomy
Gottfried Wilhelm Leibniz University, Hannover, Germany
- 2009 [Master's Degree in Physics \(*with honours*\)](#)
University of Padua, Italy
- 2007 [Summer Student in Particle Physics](#)
Fermi National Acceleration Laboratory (Fermilab), Batavia, Illinois, USA
Data analysis at the Tevatron particle accelerator
- 2006 [Bachelor's Degree in Astronomy](#)
University of Padua, Italy

SKILLS

- [Professional skills](#)
- Strong experience in science journalism and communication
 - Preparation of science news for different audiences and with disparate formats
 - Ability to extract key scientific information from research papers and via exchanges with researchers
 - Management of editorial teams
 - Content creation, curation and distribution
 - Science outreach
 - Ability to take complex scientific concepts and convey them to the general public in clear, understandable and engaging ways
 - Design and implementation of communication strategies
 - Multi-stakeholder, multi-channel dissemination of scientific results
 - Excellent oral and written communication skills
 - Development of graphic and video materials with graphic and multimedia teams
 - Project management
 - Event organisation and promotion
 - Quantitative impact assessment of communication campaigns
 - Strong academic background in physics and astronomy
 - Ability to work in international scientific organisations (*Max Planck Institute for Gravitational Physics, LIGO Scientific Collaboration, ESO, Fermilab*)
- [Digital skills](#)
- Website management with WordPress
 - Graphic design with InDesign and Canva
 - Video editing with Filmora and iMovie
 - Audio editing with Audacity
 - Newsletter creation with MailChimp
- [Languages](#)
- Italian (native)
 - English (proficient)
 - German (proficient)
 - Spanish (proficient)

SCIENTIFIC PUBLICATIONS

B. P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration)
Observation of gravitational waves from a binary black hole merger
Physical Review Letters, Volume 116, Issue 6, 061102 (2016)
Electronic preprint: <https://journals.aps.org/prl/pdf/10.1103/PhysRevLett.116.061102>

G. Mazzolo et al.
Prospects for intermediate mass black hole binary searches with advanced gravitational-wave detectors
Physical Review D, Volume 90, Issue 6, 063002 (2014)
Electronic preprint: <https://arxiv.org/abs/1404.7757>

J. Aasi et al. (LIGO Scientific Collaboration and Virgo Collaboration)
Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run
Physical Review D, Volume 89, Issue 12, 122003 (2014)
Electronic preprint: <https://arxiv.org/abs/1404.2199>

Aasi et al. (LIGO Scientific Collaboration, Virgo Collaboration and NINJA-2 Collaboration)
The NINJA-2 project: Detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations
Classical and Quantum Gravity, Volume 31, Number 11, 115004 (2014)
Electronic preprint: <https://arxiv.org/abs/1401.0939>

J. Abadie et al. (LIGO Scientific Collaboration and Virgo Collaboration)
All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run
Physical Review D, Volume 85, Issue 12, 122007 (2012)
Electronic preprint: <https://arxiv.org/abs/1202.2788>

S. Klimentenko et al.
Localization of gravitational wave sources with networks of advanced detectors
Physical Review D, Volume 83, Issue 10, 102001 (2011)
Electronic preprint: <https://arxiv.org/abs/1101.5408>

M. Cerdonio et al.
Effects of interplanetary dust on the LISA drag-free constellation
Celestial Mechanics and Dynamical Astronomy, Volume 107, Issue 1, page 255 (2010)
Electronic preprint: <https://arxiv.org/abs/1002.0489>

M. Cerdonio et al.
Modulation of LISA free-fall orbits due to the Earth-Moon system
Classical and Quantum Gravity, Volume 27, Number 16, 165007 (2010)
Electronic preprint: <https://arxiv.org/abs/1003.5528>

Note 1: I am a co-author of various papers on gravitational-wave astronomy published by the LIGO Scientific Collaboration and the Virgo Collaboration. The full list, also including the above papers, is available at: <http://inspirehep.net/search?ln=en&p=author%3AG.Mazzolo.1&jrec=1>

Note 2: I am a co-author of the following working paper on a methodology for the quantitative assessment of the performance of science communication campaigns: <https://doi.org/10.5281/zenodo.6985584>

ADDITIONAL INFORMATION

Work experience

- Training in science communication of early career researchers of the [Cluster of Excellence QuantumFrontiers](#) (20 May 2022, Max Planck Institute for Gravitational Physics, Hannover, Germany)
- Training in science communication of group leaders of the Cluster of Excellence QuantumFrontiers (27 November 2020, online)
- Science Translator from English to Italian (June - July 2019)
Translation of "Big Ideas in Astronomy" (a project of the Office of Astronomy for Education of the International Astronomical Union, voluntary activity)
- Science Translator from English to Italian (February - June 2019)
Translation of articles on Le Scienze S.p.A. (Italian edition of Scientific American)

European Horizon 2020 research projects I was involved in as a communication & dissemination leader

- ASTRABAT: astrabat.eu (January 2020 - April 2021)
- HOUSEFUL: houseful.eu (May 2018 - May 2022)
- STARDUST: stardustproject.eu (April 2018 - April 2021)
- PROTON: cordis.europa.eu/project/id/699824 (March 2018 - September 2019)
- URBAN GreenUP: urbangreenup.eu (June 2017 - May 2022)
- EFFECT and FETFX: fetfx.eu (June 2017 - May 2020)
- FEAT: featart.eu (June - October 2017)

Awards

- .eu Web Awards in the "Better World" and "Laurels" categories to stardustproject.eu and fetfx.eu, websites of the EU Horizon 2020 projects STARDUST and EFFECT/FETFX (2018)
- Grant from the Postgraduate Programme in Science Journalism and Communication of La Sapienza University (Rome, Italy) as the best student in the 2016/2017 academic year (2017)
- Odorico da Pordenone Prize from the Italian Province of Pordenone for my professional achievements (2017)
- Grant to attend the Erice International School of Science Journalism from the Ettore Majorana Foundation and Centre for Scientific Culture (2017)
- Physics Breakthrough Prize for the first observation of gravitational waves (2016, shared with the LIGO and Virgo Scientific Collaborations)
- Grant from the Italian Institute for Nuclear Physics (INFN) to support my Master thesis project. The project was carried out at the INFN National Laboratories in Legnaro (Italy), in the facility hosting the AURIGA gravitational-wave antenna (2009)