

## Curriculum vitae

### PERSONAL INFORMATION

Name: Poggianti Bianca Maria

ORCID: 0000-0001-8751-8360

Date of birth: [REDACTED]

Place of birth: [REDACTED]

Nationality: Italian

I am the Director of the INAF-Astronomical Observatory of Padova. I held an ERC Advanced Grant to support my research during 2019-2024, and a Bessel Research Award in 2006. I have been a member of the Accademia dei Lincei since 2023. I am Principal Investigator of the GASP and OMEGAWINGS surveys.

#### • EDUCATION

1995 PhD in Astronomy Department of Astronomy, University of Padova, Italy

1991 Master Degree in Physics Department of Physics, University of Pisa, Italy

#### • CURRENT POSITION

2024 – on Director, Astronomical Observatory Padova, National Institute for Astrophysics (INAF-OAPd)

#### • PREVIOUS POSITIONS

2017 – on Research Director ('Dirigente di Ricerca') at INAF-OAPd

1998 – 2016 Researcher (first and second level) Astronomical Observatory Padova, INAF, Italy

1996 – 1998 Research Associate Institute of Astronomy, University of Cambridge, UK

1995 – 1996 PostDoc Department of Astronomy, Kapteyn Instituut, University of Groningen, NL

#### • GRANTS, AWARDS AND FELLOWSHIPS

2019-2024 ERC Advanced Grant of the European Research Council under the Horizon 2020 research and innovation programme (2.5 million euros, grant agreement N. 833824 GASP)

2006 Friedrich Wilhelm Bessel Award for outstanding research record of the Alexander von Humboldt Foundation

(<https://www.humboldt-foundation.de/en/apply/sponsorship-programmes/friedrich-wilhelm-bessel-research-award>)

– 6 months stay at MPE Garching

1996-1998 Fellowship of the European Network "Formation and Evolution of Galaxies" (P.I. Simon White) for the TMR Programme (Training and Mobility of Researchers) of the European Commission

1998 Royal Astronomical Society Grant

1996 Research grant of the Netherlands Foundation for Research in Astronomy

1995 Research grant of the University of Pisa

#### • MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2023-present Socia Corrispondente Accademia Nazionale dei Lincei

Member of the European Astronomical Society (2013-) and the International Astronomical Union (2000-)

#### • LEADERSHIP OF INTERNATIONAL SCIENTIFIC PROGRAMS

--- **Principal Investigator (PI) of the GASP project**, based on an European Southern Observatory (ESO)

Large Program with MUSE and its follow-up programs (ALMA, HST, MeerKAT, UVIT, JVL, APEX), an international collaboration to study the physical processes that remove gas from galaxies and their effects on the star formation activity. GASP has been the first Large Program approved with the MUSE spectrograph. So far, it has published 70 refereed papers (<http://web.oapd.inaf.it/gasp/index.html>) and 2 ESO Data Releases.

— **PI of WINGS and OMEGAWINGS**, a wide-field survey of 76 X-ray selected galaxy clusters at low redshift and its extension. This project received 122 telescope nights with 13 different instruments at 10 telescope locations (WFC@INT, WFC@ESO2.2m, WYFFOS@WHT, 2dF@AAT, WFCAM@UKIRT, 90prime@Bok, LBC@LBT, OmegaCAM@VST, AAOmega@AAT, GMOS@Gemini, VIMOS@VLT, X-Shooter@VLT, MUSE@VLT). The WINGS dataset and products are public through the VO. This collaboration has produced over 50 refereed scientific publications.

— **PI of the survey StePS with the WEAVE spectrograph** on the William Herschel Telescope (stepped down in June 2019 for ERC) - co-PI (now PI) A. Iovino, Project Scientist S. Trager – Science Verification observations underway.

#### • INVITED SPEAKER AT INTERNATIONAL CONFERENCES

Invited speaker at ~100 international conferences, including 2 conference summaries, 1

opening talk, a JENAM Plenary Session, an EAS Plenary session, several IAU (International Astronomical Union) Assemblies and Symposia. Some of the most recent invitations:

- Invited speaker at “What matter(s) around galaxies 2024”, Varenna, 17-21/6/2024
- Invited review at “Extreme galaxies in their extreme environments at extremely early epochs”, Reykjavik, 29/4-3/5/2024
- Invited review at “A journey through galactic environments. From the halo assembly bias to the satellite quenching”, Porto Ercole, 25-29/09/23
- Invited review at the 4<sup>th</sup> Wetton Workshop, Galaxies near and far: bridging observations and simulations, Oxford UK 21-22/09/2022
- Invited review at the International Astronomical Union meeting 2022, Symposium 373: Resolving the Rise and Fall of Star Formation in Galaxies, Busan, Republic of Korea, 9-11/8/2022
- Keynote speaker at the XLIV Brazilian Annual meeting 2021, Sao Paulo, Brazil, 13-17/9/2021

#### **ORGANISATION OF SCIENTIFIC MEETINGS**

Member of the **Scientific Organising Committee (SOC)** of ~50 international conferences, including: Chair of the SOC of the 2024 European Astronomical Society meeting in Padova ([https://eas.unige.ch/EAS\\_meeting/call.jsp](https://eas.unige.ch/EAS_meeting/call.jsp)), Chair of the SOC of GASPISA2024 conference (<https://sites.google.com/inaf.it/gaspisa2024/home-page>).

#### **SEMINARS AND COLLOQUIA**

Invited speaker of more than **70 colloquia and seminars** at institutes around the world, including Carnegie Institute Pasadena, Universities of Durham, Nottingham, Santa Cruz, Edinburgh, Astronomy Institutes in Heidelberg and Munich. Some of the recent colloquia:

- Accademia dei Lincei, Roma 11/2023
- University Cidade de São Paulo, Brazil 8/5/2023
- Specola Vaticana, Vatican City 13/12/2022
- Kapteyn Institute, University of Groningen, The Netherlands 24/1/2022
- Institute of Radioastronomy and Astrophysics, UNAM University, Mexico, 4/3/2021
- University of Victoria, Canada 23/11/2020
- ESA Science Directorate, 29/10/2020
- Joint Astrophysics Colloquium in Munich (jointly organized by ESO, Max Planck Institute for Astrophysics, Max Planck Institute for Extraterrestrial Physics and Ludwig Maximilian University), Germany 10/9/2020

• **PUBLICATIONS AND CITATIONS** according to the SAO/NASA ADS Abstract Astrophysics Data System as of 23/5/2024: H index = 71, 425 publications of which 271 refereed, 16794 citations, 42 papers with at least 100 citations. As first author, she has an average of 139 citations/refereed paper and 13 papers with more than 100 citations.

Contributed author of the book “From the Realm of the Nebulae to populations of galaxies”, 2017, eds. D’Onofrio et al., selected by Springer as “Outstanding Academic Title 2017”.

#### **FUNDING**

PI of successful funding applications, including: European Research Council (ERC) Advanced Grant 2019, Italian Ministry of Education 2019, 2016, PRIN-INAF 2014, 2006, INAF 2013 PhD grant, ASI (Italian Space Agency) 2011, 2008, FIRB: Fondo per gli Investimenti della Ricerca di Base (Italian Ministry) 2004, National Research Council (CNR) 2001.

#### **MAIN INSTITUTIONAL RESPONSABILITIES**

2022-on	Patrono della Fundacion Galileo Galilei-INAF
2022	Chair of RSN1 Committee for Funding call INAF
2019	President of the National Selection Committee for INAF Permanent Positions
2011-2015	Member of the Scientific Council of the National Institute for Astrophysics.
2014-on	Member of the Teacher Council of the PhD School in Astronomy of the Univ. of Padova
2011	Elected member of the Macroarea Committee I (Galaxies and Cosmology) of INAF
2010-2011	Chair-person of the Cosmology Panel for the ESO Observing Programmes Committee
2006-2010	Italian Representative in the ESO User Committee

External PhD Examiner at Universities of Milano, Birmingham, Trieste, Nottingham, Paris and others.



- **SELECTED REVIEWING ACTIVITIES OF THE LAST 10 YEARS**

**Reviewer for telescope time committees:** Hubble Space Telescope, Subaru Telescope, Astrosat, Giant Meterwave Radio telescope, Canada France Hawaii Telescope, OPTICON Time Allocation Committee...

**Reviewer for Funding agencies:** NSERC Council of Canada, Science and Technology Facilities Council Astronomy Grant Panel UK, CONACYT Ciencia de Frontera Mexico, Discovery Grant Natural Sciences and Engineering Research Council of Canada, Research projects University of Firenze Italy, National Science Center Poland, University of Durham Fellowships UK, NWO Divisional Board of Physical Sciences the Netherlands, Academia Sinica (ASIAA) of Taiwan, IAC-CAT of Instituto de Astrofisica de Canarias, National Research Council di Romania, Italian National Agency for Evaluation of University&Research ANVUR etc

Advisor for the Programme d'Excellence of the Universite Sorbonne Paris Cite'

**Referee for European Research Council** Starting Grants, Consolidator Grants, Advanced Grant, Synergy Program

**Advisor for promotion committees** University of Hull, Flatiron Institute, Princeton Univ., University of Nottingham, HDR (Habilitation a diriger des recherches) GEPI Observatoire de Paris and others

**Referee for refereed journals** ApJ, ApJL, AJ, MNRAS, A&A, PASP, Nature Astronomy.

- **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

2004-- Supervisor of 20 PostDocs, including Yara Jaffe', Jacopo Fritz, Alessia Moretti and 8 ERC PostDocs

2009-- Tutor of 8 PhD students at the Department of Physics and Astronomy of the University of Padova, One of them (Benedetta Vulcani) was awarded the Special Honour Mention of the Gratton Award for Best Italian Thesis in Astrophysics in 2013.

2017-2022 co-Tutor of 1 PhD student at the Kapteyn Instituut, University of Groningen, the Netherlands

2009-- Tutor of 6 Master/Bachelor Degree Theses, at the Univ. of Padova, Modena (Italy) and Lund (Sweden)

2006 Host of a Roberts Travel Grant (I. Trujillo)

- **TEACHING ACTIVITIES**

2006-2018 Course "Galaxy formation and evolution" for the PhD School in Astronomy, Padova

2010-2013 Course "Cosmic structures" Master Degree in Physics of the University of Padova

2004-on Teacher of PhD-level courses, including: "Extragalactic astronomy", Univ. of Lund, Sweden; "Observational background at different redshifts", Italian National PhD School; "Star formation" Univ. of Bologna; "Spectrophotometric techniques" University of Padova; "CDM and galaxy clusters" Bochum/Bonn Graduate Research School.

- **OUTREACH**

Various outreach activities for the general public, including general public conferences (e.g. speaker for Donne fra le stelle, Abano 22-24/3/2024; Settimana della Scienza, Padova 11/2023; Lions Club Padova 17/11/2021; European Researcher Night, La Specola, 9/2019, 9/2022; Caffè Scienza, Rovigo, 6/2019), several lectures for children and teen-agers at public schools (e.g. Scuola Media Mazzini, Padova, 2019, Scuole Primarie Piazzola sul Brenta 2023), TV-interviews (Telenuovo 4/2019, Telechiara 5/2024) etc.

- **MAJOR CURRENT COLLABORATIONS**

— GASP (PI)

— WEAVE (PI of StePS Survey till 6/2019, co-PI A. Iovino, Project Scientist S. Trager)

--- 4MOST (StePS-4MOST in WAVES survey (PI R. De Jong) and CHANCES survey (PI C. Haines))

— The Grism Lens-amplified Survey from Space, GLASS and GLASS-ERS (approved JWST Director's Discretionary Early Release Science Program) (PI T. Treu, UCLA, USA)

- **MAJOR CONTRIBUTIONS TO EARLY CAREER OF EXCELLENT RESEARCHERS**

Poggianti has given a major contribution to the early career of several excellent young researchers.

Three of her PhD students have been awarded the Gini Grant from the Gini Foundation. Several of her former PostDocs have now permanent jobs in astronomy (e.g. J. Fritz in Mexico, J. Varela in Spain, Y. Jaffe' in Chile, B. Vulcani and A. Moretti in Italy) or hold PostDoc positions at institutes around the world (e.g. Mingozzi at Space Telescope Science Institute, USA). Though not their formal advisor, she has significantly contributed to the early career of other excellent researchers (e.g. Gabriella De Lucia). She endorsed several Award applications, including the Bessel Award for Gabriella De Lucia and the MERAC prize for Yingjie Peng, both successful.

**Padova, 23 May 2024**