

PERSONAL INFORMATION **Stefano Vercellone**

📍 INAF–OAB, Via E. Bianchi, 46 – 23807 Merate (LC) – Italy

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Nationality Italian

## SHORT RESUME

## Current Position

INAF–OAB

INAF – Osservatorio Astronomico di Brera

Permanent Staff Researcher (Livello III, Classe VI)

ORCID 0000-0003-1163-1396

SCOPUS 6602385302

## Main Scientific Activities

*AGN and Blazars*

The study of active galactic nuclei allowed me to introduce a novel relation between the black-hole mass and the radio nuclear activity, imposing tight constraints on the super-massive black-hole mass function (Franceschini, Vercellone & Fabian, 1998). Later on, my research activity concentrated on the multi-wavelength study of gamma-ray blazars, by planning and leading multi-wavelength observing campaigns on several gamma-ray loud sources. These observing campaigns allowed me to investigate the location of the gamma-ray emitting zone (e.g., Vercellone et al., 2019, 2011, 2010, 2019). **I am currently involved in high- and very-high energy Astrophysics studies of extra-galactic jetted sources (e.g., Vercellone et al., 2020).**

*ASTRI and CTAO Projects*

In 2012 I was appointed by the INAF Science Director as the ASTRI Co-PI with the role of Project Scientist and since 2020 I am coordinating the ASTRI Mini-Array Science work package. **I am coordinating the scientific exploitation of the ASTRI Mini-Array**, leading a team composed of both gamma-ray scientists and experts in MonteCarlo simulations. A description of the results is reported, e.g., in Vercellone 2016, 2013, 2022. In May 2016 I was elected by the CTA Consortium board as the CTA Science Coordinator. I ended my term on December 2017. I was responsible for coordinating the overall science production of CTA Consortium. A description of the results is reported, e.g., in Vercellone 2018. **In 2020 I was appointed Responsible of the "Science/early science" Work-package of the INAF-CTA activities.**

*Management Roles*

- ASTRI Science Program Work Package Responsible
- INAF–CTA Science Work Package Coordinator
- Member of the ASTRI Board
- Member of INAF–CTA Board
- AGILE AGN Science Working Group Coordinator
- Former CTA Consortium Science Coordinator
- Former member of the CTA Consortium Board as INAF/IASF Palermo Group Representative
- Former member of the CTA Science and Publication Office

*Funding Management*

- 2018: INAF/OAB RU Responsible – Accordo ASI-INAF n.2017-14-H.0
- 2010: National Coordinator – Accordo ASI-INAF I/009/10/0
- 2009: INAF/IASFPA RU Responsible – Bando ASI I/088/06/0

*Metrics*

- 200 refereed publications (ADS)
- h-index = 51 (ADS)
- 13500+ total refereed citations (ADS)
- 25+ invited talks/seminars at International meetings in the last 10 years
- SOC member in 10 International meetings in the last 10 years

## WORK EXPERIENCE

01/10/2016 – Present **Permanent Staff Researcher**

INAF–OAB

Via E. Bianchi, 46 – 23807 Merate (LC), Italy

- Since December 2020: Responsible of the ASTRI Mini-Array Science Program WP
- Since July 2020: Coordinator of the “CTA–INAF” Science WP
- Since July 2020: Member of the “CTA–INAF” Board
- May 2016–December 2017: Physics Coordinator of the CTA Consortium
- Since July 1998: Multi-frequency studies of gamma-ray loud active galactic nuclei

05/05/2008 – 30/09/2016 **Permanent Staff Researcher**

INAF–IASF Palermo

Via U. la Malfa, 153 – 90146 Palermo (PA), Italy

- Co-PI of the ASTRI Project
- Member of the ASTRI Science and Publication Office
- Multi-frequency studies of gamma-ray loud active galactic nuclei

14/04/2000 – 04/05/2008 **Associate Researcher**

INAF–IASF Milano

Via E. Bassini, 15 – 20133 Milano (MI), Italy

- AGILE gamma-ray satellite technical and scientific activities
- Multi-frequency studies of gamma-ray loud active galactic nuclei
- Coordinator of the AGILE AGN Working Group

01/07/1998 – 13/04/2000 **Grant Holder**

CIFS

Via P. Giuria, 1 – 10125 Torino (TO), Italy

- AGILE gamma-ray satellite Phase A and Phase B scientific activities

CNR - IFC Milano

Via A. Corti, 12 – 20133 Milano (MI), Italy

- XMM-Newton X-ray satellite calibration

2003 – Present **Supervised persons**

Main Supervisor

- 2007 – Laurea Degree, Fabio Fornari, Università Statale di Milano, Italy
- 2006 – Laurea Degree, Paola La Rosa, Università Statale di Milano, Italy
- 2004 – Laurea Degree, Giovanna Pollini, Università Statale di Milano, Italy
- 2003 – Laurea Degree, Simona Soldi, Università Statale di Milano, Italy

Secondary Supervisor

- 2022 – M.Sc., Sara Baitieri Università di Milano Bicocca, Italy
- 2019 – B.Sc., Sara Baitieri Università di Milano Bicocca, Italy
- 2018 – B.Sc., Leonardo Barzaghi, Università di Milano Bicocca, Italy

2006 – Present **Professional Memberships**

- Since 2007: Member of the American Astronomical Society (International Affiliated)
- Since 2007: Member of the AAS High Energy Astrophysics Division
- Since 2006: Member of the International Astronomical Union

## EDUCATION AND TRAINING

## 27/12/2013 – Present Associate Professor Qualification

MIUR, Rome, Italy

- G1 - Pubblicazioni presentate: OTTIMO
- G2 - Attività scientifica globale: OTTIMO
- G3 - Responsabilità scientifica: ECCELLENTE

## 23/06/2010 – 25/11/2010 INAF-LUISS Business School Diploma

This school was organized jointly by INAF and LUISS in order to allow INAF researchers to gain expertise in the organization and management of large scientific and technical projects

## 01/09/1997 – 15/11/1998 Post-graduate school in “Space Science” Diploma

CISAS, Padova (PD), Italy

Thesis on *Applicabilità della diagnostica fisica terrestre mediante analisi di immagini su altri pianeti: Marte*

## 15/10/1986 – 23/06/1997 Laurea Degree in Astronomy

University of Padova, Department of Astronomy, Padova (PD), Italy

Thesis on *Buchi Neri Super-massivi in Galassie ed Attività Nucleare*

RESEARCH GRANTS AWARDED  
IN COMPETITION

## 2018 – 2019 Extragalactic jets and outflows: probing their physics over multiple scales – Accordo ASI-INAFA n.2017-14-H.0

PI: E. Pian

INAFA/OAB Research Unit Responsible

## 2010 – 2011 “Gamma-ray AGNs in the AGILE era” – Accordo ASI-INAFA I/009/10/0

PI: S. Vercellone

National Coordinator

## 2009 – 2010 “Broad-band multi-wavelength observations of blazars” – Bando ASI I/088/06/0

PI: C.M. Raiteri

INAFA/IASFPA Research Unit Responsible

## AWARDS AND DISTINCTIONS

## 2020 INAF–CTA Science Responsible

INAFA

In 2020 I was appointed by the INAF Responsible of the UTG-III DS INAF (Prot. 4043) as the INAF–CTA Science/Early Science Responsible. Since then, I am coordinating the preparation of the INAF–CTA science exploitation, leading a team composed of gamma-ray scientists.

**2016 CTA Science Coordinator**

CTA Consortium

In 2016 the CTA Consortium Board elected me as CTA Science Coordinator. My term lasted until December 2017. My main responsibilities were to organize the Physics Science Working Group, coordinating their activities and reporting to the CTA Consortium Board Chair and the CTA Spokespersons.

**2012 Bruno Rossi Prize**

HEAD-AAS

The 2012 Rossi Prize has been awarded to astrophysicist Marco Tavani and the AGILE team for the discovery of gamma-ray flares from the Crab Nebula. Long thought to be a steady source of energy - from optical to gamma rays - this finding has changed the understanding of this very important cosmic object.

**2012 ASTRI Co-PI (Project Scientist)**

INAF

In 2012 I was appointed by the INAF Science Director (Prot. 1125/12) as the ASTRI Co-PI with the role of Project Scientist. Since then, I am coordinating the scientific exploitation of the ASTRI Mini-Array, leading a team composed of both gamma-ray scientists and experts in Monte-Carlo simulations.

**REFEREE ACTIVITY****2021 – Present MIUR**

VQR 2015–2019 Reviewer

**2017 – Present MIUR**

“Rita Levi Montalcini” Young Researcher Program Proposal Reviewer

**2015 – Present The Dutch Research Council (NWO)**

NWO Proposal Reviewer

**2013 – Present MIUR**

Albo dei Revisori

**2005 – Present Peer-reviewed Journals**

The Astrophysical Journal

The Astrophysical Journal Letters

The Astronomical Journal

Monthly Notices of the Royal Astronomical Society

Astronomy &amp; Astrophysics

Publications of the Astronomical Society of Japan

Publications of the Astronomical Society of the Pacific

Research in Astronomy and Astrophysics

Proceedings of Science

## PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user  
Common European Framework of Reference (CEF) level

Communication skills – Excellent communication skills gained through my experience as CTA Consortium Science Coordinator and ASTRI Science WP Responsible .

Job skills – Working within the AGILE Team allowed me to get acquainted with both technical and scientific topics related to the detection of the gamma-ray radiation, and the development and optimization of the analysis software and calibration techniques.  
– As the AGN Working Group Coordinator, I developed a methodical and publication-oriented approach to the management of research activities, working in collaboration with the AGILE Science Board, planning and leading multi-wavelength observing campaigns on several gamma-ray loud sources.  
– As the ASTRI Science WP Responsible, I am coordinating the scientific exploitation of the ASTRI Mini-Array, leading a team composed of both gamma-ray scientists and experts in Monte-Carlo simulations. We are currently planning a set of observations that could be performed by means of the ASTRI Mini-Array during the periods when the CTA science verification observations cannot be performed, in order to address some preliminary science studies.

Organisational / managerial skills Thanks to the positions I formerly and currently hold I acquired the following skills:  
– manage collaborations in an international environment;  
– acquire and managing funds obtained on competitive basis;  
– assign science activities based on the level of experience and competences of collaborators;  
– provide both a financial plan and an associated schedule.

Computer skills – Good command of the Office Suite and of the Mac Os Editorial Suite  
– Good knowledge of the IDL and Shell programming languages  
– Good knowledge of the Mac OS X and Linux/UNIX operating systems  
– Experience with Python and HTML

Other skills My team-working qualities are widely recognized, as is my impartiality and problem-solving approach to controversies

Driving licence A, B

Personal data disclosure I agree with the diffusion of the information related to this Curriculum Vitae, according to the Italian law D.L. 10 Agosto 2018, n. 101 published on 04 September 2018 with the Title “Disposizioni per l’adeguamento della normativa nazionale alle disposizioni del regolamento (UE) 2016/679 del Parlamento europeo e del Consiglio, del 27 Aprile 2016, relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali, nonché alla libera circolazione di tali dati e che abroga la direttiva 95/46/CE (regolamento generale sulla protezione dei dati)”.