

PERSONAL INFORMATION

Marianna Annunziatella



EXPERIENCE

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| 10/12/2021-09/12/2025 | Atracción de talento fellow at Centro de Astrobiología, Torrejón de Ardoz, Madrid, Spain |
| 03/03/2020-09/12/2021 | Postdoctoral Research Associate at Centro de Astrobiología, Torrejón de Ardoz, Madrid, Spain |
| 09/01/2017-02/28/2020 | Postdoctoral Research Associate at Tufts University, Boston, MA, USA |
| 06/01/2016-08/31/2017 | Postdoctoral Research Associate at Osservatorio Astronomico di Trieste, Trieste, Italy |
| 03/01/2017-05/31/2017 | Physics high school teacher at Istituto comprensivo di Cervignano, Udine, Italy |
| 01/01/2016-12/31/2016 | Postdoctoral Research Associate at Osservatorio Astronomico di Trieste, Trieste, Italy |

EDUCATION AND TRAINING

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| 2013-2016 | Ph.D. in Physics Thesis defense: March 16th 2016
Università degli studi di Trieste (I)
Dissertation Title: "Environment-driven evolution of galaxies in CLASH—VLT clusters" (Supervisors: Dr. Biviano A. and Prof. Girardi M.). |
| 2009-2012 | Master Degree in Astrophysics Thesis defense: October 10th 2012. Evaluation: 110/110 cum laude
Università degli studi di Napoli (I)
Thesis Title: "STraDiWA, a simulation environment for astronomical transient discovery." (Supervisors: Prof. Longo G., Dr. Brescia M. and Dr. Mercurio M.) |

2005-2009 **Bachelor degree in Physics** Thesis defense: March 26th 2009. Evaluation: 110/110 cum laude
 Università degli studi di Napoli (I)
 Thesis Title: "Physical classification of AGN with machine learning methods" (Supervisor: Prof. Longo G.).

QUALITY INDICATORS IN SCIENTIFIC PRODUCTION

July 14, 2024 53 refereed publications, with 2199 citations, h-index=26. [Source: ADS.](#)
 July 14, 2024 50 refereed publications, with 1680 citations, h-index=23. [Source: Scopus.](#)

ABILITAZIONE NAZIONALE

16/10/2023-16/10/2034 National Scientific qualification as associate professor in the Italian higher education system (i.e. University, Ministerial Decree n. 553/2021 and 589/2021) for the disciplinary field of Astronomy, astrophysics, Earth and planetary physics (FIS/05 - 02/C1).

TALKS AT INTERNATIONAL CONFERENCES

I presented my work in 21 international conferences with oral contributions (17) or posters (4) and in 9 invited seminars. The main contributions are listed below.

- Invited**, 2024, September 30th - October 4th *Galaxy Star Formation Quenching Workshop*, "TBD" (Madrid, Spain).
- Invited**, 2024, June 10th - 14th *Cosmic Odysseys 2024*, "MIDIS: unveiling the SFHs of massive galaxies with spectrophotometric data" (Crete, Greece).
- 2023, September 25th - 29th *A journey through galactic environments*, "Interplay between stellar population ages, environment and star-formation activity for massive galaxies at $1.0 \leq z \leq 1.5$ " (Porto D'Ercole, Italy).
- 2023, July 10th - 14th *THE JAMES WEBB SPACE TELESCOPE TURNS ONE: THE BIRTH AND GROWTH OF GALAXIES*, "Assembly history of massive galaxies at $z > 1$ as seen by JWST-NIRISS" (Sesto, Italy).
- 2022, June 27th - July 1st *European Astronomical Society (EAS) annual meeting 2022*, "Massive galaxies in the GOODS-N field at $1.0 < z < 1.5$: correlations between stellar population ages, environment, and star-formation activity" (Valencia, Spain).
- 2022, June 27th - July 1st *European Astronomical Society (EAS) annual meeting 2022*, "Integrated properties of continuum dominated massive galaxies at $z > 1$ with JWST/NIRISS" (Valencia, Spain).
- 2019, November 18th - 22nd *The art of measuring galaxy physical properties*, "Fantastic Beasts and Where to Find Them: Monster Galaxies at $z > 3$ and their characterization" (Milano, Italy).
- 2019, July 8th - 12th *Tracing Cosmic Evolution with Clusters of Galaxies*, "Unveiling the growth of ultra-massive galaxies at high redshift" (Sesto, Italy).
- Invited**, 2017, July 24th - 28th *Exploring dark matter and dark ages with lensing clusters*, "Mass profile decomposition of Frontier Field cluster M0416" (Sesto, Italy).

APPROVED OBSERVING PROGRAMS

I am a Co-I of more than 10 observing programs for ~ 1000 hrs of observing time from both ground-based or space telescopes. Below a selection of 10.

- Co-I The MIRI deep imaging survey of the lensing clusters Abell2744 and MACS0416, **JWST** GO3, 74.9 hrs, PID: 5578, PI: E. Iani.
- Co-I Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 microns, **JWST** GO3, 116 hrs, PID: 6511, PI: G. Oestlin.
- Co-I Dissecting the Monsters: Resolved IFU Spectroscopy of the Most Massive Quiescent Galaxies at $z > 3$, **JWST** GO2, 19.9 hrs, PID: 2913, PI: B. Forrest.
- Co-I Unveiling the properties of high-redshift low/intermediate-mass galaxies in Lensing fields with NIRCcam Wide Field Slitless Spectroscopy, **JWST** GO2, 64.5 hrs, PID: 3538, PI: E. Iani.

- PI** Characterizing Growth and Quenching Pathways of the Most Massive Galaxies at $z > 3$, **HST/WFC3**, 12 orbits.
- PI** Catch Them Before they Quench: The First Comprehensive Look at Ultra-massive Star-forming Galaxies at $z > 3$, **GTC/EMIR**, 30hrs.
- Co-I** The Quest for the Holy Grail: Spectroscopy of a $z = 4.7$ Quiescent Ultra-massive Galaxy Candidate, **Keck/MOSFIRE**, 22hrs, PI: D. Marchesini.
- Co-I** Massive Ancient Galaxies At $z > 3$ NEar-infrared (MAGAZ3NE) Survey: Ultra-Massive Galaxies and their Environments at $3 < z < 4$, **Keck/MOSFIRE**, > 20 nights, 20017-2023, PI: G. Wilson.
- Co-I** Dawn of the Monsters: JWST Characterization of Extremely Massive Galaxies at $z \sim 5$, **JWST** GO1, 8.6 hrs, PID: 2362, PI: Z.C. Marsan.
- Co-I** Do Massive Quiescent Galaxies Exist at $3 < z < 4$?, **ALMA**, 6.4 hrs, PI: B. Forrest.
- Co-I** VST-GAME: Galaxy Assembly as a function of Mass and Environment with VST, **VST**, 300 hours, PI: A. Mercurio.

GRANTS

- PI** HST Cycle 30 proposal, **144.000\$**.
- PI** Atracción de talento Fellowship. Four years of contract, **153.000€**, Madrid, Spain.
- PI** Atracción de talento Fellowship. Additional Funding to travel, **12.000€**, Madrid, Spain.
- Co-I** JWST GO2 proposal, PID: 2913, **316.000\$**.

MAJOR COLLABORATIONS

- MIRI-GTO** Associate of the JWST Guaranteed Time Observations (GTO) program: "The MIRI HUDF Deep Imaging Survey".
- CEERS** Junior Associate of the JWST program: "Cosmic evolution early release science survey".
- MAGAZ3NE** The Massive Ancient Galaxies At $z > 3$ NEar-infrared (MAGAZ3NE) Survey (US, Canada).
- ZOOMING/CLASH-VLT** Collaboration among several Italian institutions.

INTERNATIONAL COMMITTEES

- 2023** HST Cycle 31 External Expert Reviewer.
- 2023** JWST GO2 External Expert Reviewer.
- 2022-ongoing** Reviewer for the VST Observing Programs INAF TAC (Italy).
- 2022-** Member of the bank of experts for the evaluation of projects for the Agencia Estatal de investigación (AEI).
- 2021-2022** Cosmology and the intergalactic medium panel member for the evaluation of observing proposals for the European Southern Observatories (ESO) facilities. I served for 3 consecutive semesters: P108, P109, P110.

SCIENTIFIC ORGANIZING COMMITTEES

- 2022** "HOT TOPICS IN ASTROPHYSICS", Sesto, Italia.

LOCAL ORGANIZING COMMITTEES

- 2024** "Achieve your JWST data: getting ready for Cycle 4", Madrid, Spain.
- 2025** "JWST Origins (title still TBD)", Madrid, Spain.

EDITORIAL COMMITTEES

- 2022-** Peer Reviewer Editor for "Frontiers in Astronomy and Space Sciences".
- 2017-** I am an active referee for the major journals in Astrophysics such as Astronomy & Astrophysics (A&A), Monthly Notices of the Royal Astronomical Society (MNRAS) and the Astrophysical Journal (ApJ).

TEACHING EXPERIENCE

- 2021-2022** Co-supervisor of the PhD thesis of the student Luisa Pecoraro from University of Salerno.
- 2021-2022** Supervisor of "Trabajo de Fin Master" at Universidad Computense de Madrid.

- 2018-2020 Mentoring of two undergraduate students (Theodor Peña and Victor Soto Catstro), Physics and Astronomy Department, Tufts university, Medford, MA.
- 2018-2019 Occasional lecturer for the following course: AST-31: Stellar Structure and Evolution, Physics and Astronomy Department, Tufts university, Medford, MA.
- 2015 Occasional lecturer for the following course: Astrophysics, undergraduate level, University of Trieste, Trieste, Italy.
- 2017 High school teacher of mathematics, Cervignano, Udine, Italy.

OUTREACH

- 2022 Publication of an article about the James Webb telescope on the journal: "Revista de defensa", Madrid, Spain.
- 2018 Interview at "Genio Vagante" an Italian radio transmission from the "Istituto Italiano di Cultura", Montreal, Canada.
- 2012 Research Open days at INAF-Osservatorio di Trieste.

FOREIGN LANGUAGES

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Spanish	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

Auto-evaluated.

Le informazioni contenute nel presente "curriculum vitae et studiorum" sono rese sotto la personale responsabilità del sottoscritto, ai sensi degli articoli 46 e 47 del Decreto del Presidente della Repubblica 28 dicembre 2000, numero 445, e successive modifiche ed integrazioni, consapevole della responsabilità penale prevista dall'articolo 76 del medesimo Decreto per le ipotesi di falsità in atti e dichiarazioni mendaci.

Madrid, July 14, 2024