

**FORMATO EUROPEO
PER IL CURRICULUM
VITAE**



Al fine della pubblicazione

INFORMAZIONI PERSONALI

Name FEDERICO RADICONI

E-mail



WORKING EXPERIENCE

Work Period COLLABORATION SCHOLARSHIP: PHYSICS TUTOR FOR BIOLOGICAL SCIENCE STUDENTS
14/01/2019-17/07/2019

Work COLLABORATION SCHOLARSHIP: TUTOR AT THE SIGNAL AND SYSTEMS LABORATORY
DEPARTMENT OF PHYSICS, UNIVERSITY OF ROME "LA SAPIENZA"

Period 01/01/2018-20/12/2018

Work TUTOR FOR THE COURSE: LABORATORY OF MECHANICS. PROF. F. MEDDI
DEPARTMENT OF PHYSICS, UNIVERSITY OF ROME "LA SAPIENZA"

Period 01/04/2020-10/07/2020

Work TUTOR FOR THE COURSE: LABORATORY OF ASTROPHYSICS. PROF. E. BATTISTELLI
DEPARTMENT OF PHYSICS, UNIVERSITY OF ROME "LA SAPIENZA"

Period 01/11/2020-15/01/2021

Work TUTOR FOR THE COURSE: LABORATORY OF MECHANICS. PROF. F. MEDDI
DEPARTMENT OF PHYSICS, UNIVERSITY OF ROME "LA SAPIENZA"

Period 07/04/2021-30/06/2021

EDUCATION

Title Bachelor degree in physics (L-30)

Period 01/10/2014-19/10/2017

Name and type of Institution University of Rome "La Sapienza"

Score Degree with honours

Thesis Title L'effetto Sunyaev Zel'dovich come test per la Cosmologia e strumento per lo studio degli
ammassi di galassie

Supervisor Elia Stefano Battistelli

Title	Master degree in Astronomy and Astrophysics (LM-58)
Period	19/10/2017-22/07/2019
Name and type of Institution	University of Rome "La Sapienza"
Score	Degree with honours
Thesis Title	Observations and data analysis of the microwave emission of Andromeda Galaxy
Supervisor	Elia Stefano Battistelli

Title	PhD in ASTRONOMY, ASTROPHYSICS AND SPACE SCIENCE
Period	02/11/2019- ongoing
Name and type of Institution	University of Rome "La Sapienza"
Thesis Title	Extragalactic study of Anomalous Microwave Emission: observations and data analysis
Supervisor	Elia Stefano Battistelli

AWARDS

	Winner of the Excellence Programme for 4 second year master students in Astronomy and Astrophysics
Period	11/02/2019–10/07/2019
Name and type of Institution	University of Rome "La Sapienza"
Project	Experimental points fit with the Monte Carlo Markov chain method
Supervisor	Francesco Piacentini

PERSONAL SKILLS

NATIVE LANGUAGE ITALIAN

OTHER LANGUAGES

	English
Reading	B1
Writing	B1
Speaking	B1

DIGITAL SKILLS

OS	Windows, Linux
PROGRAMMING LANGUAGES	C, Fortran90, Python, Latex
OFFICE PACKAGES	Word, Excel, Power Point

PUBLICATIONS

Sunyaev Zel'dovich study of filamentary structures between galaxy cluster pairs
 Battistelli E.S. et al., Astro 2020 Science White Paper, BIBC0DE : 2019BAAS...51c.208B (2019)

Strong Evidence of Anomalous Microwave Emission from the Flux Density Spectrum of M31.
 Battistelli E.S. et al., ApJ 877, L31 (2019)

Study of the thermal and nonthermal emission components in M31: the Sardinia Radio Telescope view at 6.6 GHz.

Fatigoni S., Radiconi F., Battistelli E.S., Murgia M., et al., A&A 651, A98 (2021)

A high-resolution view of the filament of gas between Abell 401 and Abell 399 from the Atacama Cosmology Telescope and MUSTANG-2

Hincks A.D., Radiconi F., Romero C., Madhavacheril M.S., Mroczkowsky T., et al., arXiv:2107.04611 (2021). Submitted to MNRAS

Observations of compact sources in galaxy clusters using MUSTANG2

Dicker S.R. et al., arXiv:2107.06725 (2021). Accepted for publication in MNRAS

ACCEPTED PROPOSALS

Study of the Microwave emission of M31 in the K-band with SRT

P.I. Battistelli E.S.

MUSTANG2 SZ study of the filamentary structure between cluster pair A401- A399

P.I. Battistelli E.S.

Understanding the physics of Anomalous Microwave Emission through high-angular resolution observations of the Perseus molecular cloud

P.I. Génova-Santos R.T.

Searching for anomalous microwave emission through resolved observations of nearby galaxies

P.I. Peel M.

CONFERENCES ORGANIZATION

LOC **Quid Ultra 2021**. Rome, January-December 2021

OTHER ACTIVITIES

Visiting Observer at the Sardinia Radio Telescope for the project 33-18: Study of the Microwave emission of M31 in the K-band

20/12/2018-24/12/2018, 31/01/2019-04/02/2019 e 18/11/2019-21/11/2019

Visiting Observer at the Green Bank Observatory for the project AGBT19B_095: MUSTANG2

SZ study of the filamentary structure between cluster pair A401-A399

30/11/2019-19/12/2019

Member of the MISTRAL team (Millimetric Sardinia radio Telescope Receiver based on Array of Lumped elements). PON-O.R.3

September 2019- ongoing

Member of the Atacama Cosmology Telescope collaboration

ROME, 15/10/2021

F.to Federico Radiconi