#### PERSONAL INFORMATION

## Enzo Franco Branchini



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Sex Male | Date of birth 16/05/1965 | Nationality Italian

**POSITION** 

Full Professor at the Department of Physics, University of Genova

since 02/2022

Via Dodecaneso 33, 16146, Genova, Italy

**MEMBERSHIPS** 

INFN (National Institute of Nuclear Physics). Roma Tre Unit

#### WORK EXPERIENCE

2007-2022 Associate Professor

Department of Physics, University Roma Tre

2002-2007 Permanent Researcher (Ricercatore)

Department of Physics, University Roma Tre

2000-2002 Postdoctoral Fellowship.

Department of Physics, University Roma Tre

1998-2000 Postdoctoral Fellowship.

Kapteyn Institute, University of Groningen. The Netherlands

1995-1998 Marie Curie Postdoctoral Fellowship.

Department of Physics, University of Durham. United Kingdom

## **EDUCATION AND TRAINING**

## 1993-1995 Ph.D in Astrophysics

International School for Advanced Studies. Trieste, Italy. Supervisor: Prof. D. W. Sciama.

- Cosmology. Large Scale Structure of the Universe. Clusters of galaxies.
- Dissertation Title: Reconstructing the Cosmic Density and Velocity Fields.

## 1991-1993 MS.C in Astrophysics

International School for Advanced Studies (SISSA/ISAS). Trieste. Italy. Supervisor: Prof. D.W. Sciama.

- Cosmology. Cosmic Flows. Reconstruction Techniques.
- Dissertation Title: Probing Cosmic Density Fields Using the Least Action Principle.

## 1985-1991 Bs.C in Physics (Laurea Degree)

University of Milan (Università degli Studi di Milano). Milan. Italy. Supervisor: Prof. G. Chincarini

- Cosmology. N-body Techniques. Galaxy Clustering.
- Dissertation Title: Gravitational evolution of scale-invariant structures.

#### RESEARCH INTERESTS

Cosmology: Large Scale Structure, Dark Matter, Dark Energy. Astrophysics: Interstellar Medium, Galaxy Surveys, X-ray astronomy. Methods: numerical simulation, statistical estimators, reconstruction techniques.

### PERSONAL SKILLS

Mother tongue

Italian

#### Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C2
B1	B2	B1	B1	B1

English French

### Organisational / managerial skills

Euclid Consortium for the ESA Satellite Mission "Euclid"

- "Builder" status since 2020.
- Co-lead of the Organization Unit Level 3 Data Analysis (currently responsible for a team of 234 people)
- Co-lead of the LE3 Galaxy Clustering Work Package (currently responsible for a team of about 60 people)

INFN-Roma Tre Unit. InDark Project

- Lead of the Local InDark Unit (currently responsible for a team of 5 people)
- EU-representative in the Advisory Committee for the NASA-WFIRST satellite mission.
- @ Department of Physics, University Roma Tre
- Member of the PhD Program Comittee
- President of the Evaluation Panel for the Master Degree in Physics.

## Awards

Euclid Consortium Star Prize 2020. Category: Management and Leadership.

## Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent	Independent	Independent	Basic	Independent

- Operating Systems: Linux, MacOSX, Windows
- Software: LaTex, SM, MS Office, iWork,
- Programming Languages: Fortran 77/90/95, C

## ADDITIONAL INFORMATION

#### Collaborations/Projects

- Euclid Space Mission (since 2012).
- Athena ESA Satellite Project (since 2014)
- INFN InDark Project (since 2014)
- VIPERS ESO Public Galaxy Survey (since 2008)

#### **Recent Grants**

- ASI/INAF Data Analysis (2019-2021). Unveiling Dark matter and Missing Baryons. P.I. (53,000 €)
- PRIN/MIUR 2017 (2019-2022) From Darklight to Dark Matter. Research Unit leader. (169,000 €)
- ASI/INAF (2019-2022). Euclid Project Work Package Leader (146,000 €)
- PRIN/MIUR (2015-2018) Cosmology and Fundamental Physics: illuminating the Dark Universe. (27,000 €)
- INFN (2011-ongoing) InDark Project. Local Manager Local Manager (35,000 €)
- ASI/INAF (2011-2018). Euclid Project Work Package Leader (216,000 €)

#### Reviewer (for Journals)

Astronomy and Astrophysics, The Astrophysical Journal, Journal of Cosmology and Astro-particle Physics, Monthly Notices of the Royal Astronomical Society, Physical Review D, Physical Review Letters, Publications of the Astronomical Society of the Pacific.

#### Reviewer (for organizations)

Aarhus Institute (Denmark), ANVUR (IT. VQR 2012, 2016), ERC (EU), ESA (EU), NASA (US), ISF (IL), MIUR (IT. PRIN, FIR, FIRB, SIR), NWO (NL), Regione Lazio (IT), Regione Sardegna (IT).

Curriculum Vitae Enzo Franco Branchini

# Invited Presentations (last 5 years)

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12/2021
            ■ Meeting. SWG-GC Meeting. OU-LE3 Status Report. Remote.
10/2021
            ■ Meeting. Euclid Garage Days. Milky Way Attenuation. Remote.
10/2021

    Workshop. Cosmology Weeks. Large-Scale Structure of the Universe. Świeradów – Zdrój (PL).

09/2021

    Workshop. PRIN meets BAM. Higher Order Clustering Analyses. Barolo. (IT)

02/2021
            ■ Meeting. OU-LE3 State of the Art. Euclid national meeting. Remote.
11/2020
            ■ Meeting. OU-LE3 Status Report.SWG-GC Meeting. Remote.
05/2020

    Meeting.. Euclid general meeting. Managing OU-LE3 with no formal training. Barcelona (ES).

03/2020
            Workshop. . Euclid Garage Days. Reconstruction in galaxy clustering. Paris (FR).
02/2020

    Workshop. SWG-LE3 Galaxy Clustering. Galaxy Clustering Estimators for Euclid. Paris (FR).

02/2020
            ■ Meeting. Euclid national meeting. OU-LE3 status and prospects. Bologna (IT).
11/2019

    Meeting. CERN-TH-Euclid Meeting. 2-point correlation analysis in Euclid. Geneva (CH).

08/2019
            ■ Talk. Cosmology with Euclid. University of Perth. Perth. (AU).
06/2019

    Workshop. BAO Least Action Reconstruction. Dynamics of LSS formation. Garching. (DE).

02/2019
            ■ Workshop. OU-LE3 interfaces. Euclid Garage Day #19. Madrid (SP).
02/2019
            ■ Congress. Euclid and Beyond. The many faces of modern cosmology. Rome (IT).
01/2019
            Joint OU-LE3-OU-SHE meeting. Galaxy Clustering status and perspectives. Nice (FR).
09/2018
            SIF Congress. The Euclid Satellite to Map the Dark Universe: Overview. Rende (IT).
09/2018

    3<sup>rd</sup> Anisotropic Universe Meeting. Anisotropies and Anomalies in Low Frequency Radio Surveys.

07/2018
            Workshop. Paving the Way for Next Generation Cosmological Surveys. Sexten. (IT).
06/2018
            ■ Euclid Meeting. OU-LE3 Status Report. Bonn (DE).
02/2018

    OU-LE3 Meeting. Galaxy Clustering Status and Perspectives. Nice (FR).

02/2018
            ■ 1<sup>st</sup> national Euclid Meeting. Introduction to Galaxy Clustering. Rome (IT).
01/2018
            Athena Science Preparation Meeting. Open Issues with WHIM Science for Athena. Sexten (IT).
07/2017
            Workshop Roaming Baryons. Auto- and Cross-correlation in the shock-heated IGM. Sexten (IT).
06/2017
            ■ Euclid Meeting. 2-point clustering estimators. London (UK).
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# Meeting Organization (last 5 years)

10/2021	PRIN meets BAM. Barolo. (ITR).
02/2020	■ Euclid joint OU-LE3-SWG-GC-SWG_WL-SWG-CL Meeting. Paris (FR).
06/2019	<ul> <li>Euclid OU-LE3 splinters at General Euclid Meeting. Helsinki (FI).</li> </ul>
01/2019	■ Euclid OU-LE3 <i>Meeting</i> . Nice (FR).
07/2018	■ Workshop. Paving the Way for Next Generation Cosmological Surveys. Sexten. (IT).
06/2018	<ul><li>Euclid OU-LE3 splinters at General Euclid Meeting. Bonn (DE).</li></ul>
02/2018	Joint LE3-SWG Galaxy Clustering Meeting. Nice (FR).
07/2017	<ul> <li>Workshop Getting Ready for Science. Galaxy Clustering and SPV. Sexten (IT).</li> </ul>
06/2017	<ul><li>Euclid OU-LE3 splinters at General Euclid Meeting. London (UK).</li></ul>
02/2017	■ Euclid OU-LE3 <i>Meeting</i> . London (UK).
07/2016	Meeting BAO and RSD. Dark Light in Obscure Acronyms. Sexten (IT).
06/2016	<ul><li>Euclid OU-LE3 splinters at General Euclid Meeting. Lisbon (PT).</li></ul>
02/2016	Joint LE3-SWG galaxy Clustering Meeting. Milan (IT).

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2018

- International School of Space Science: The Dark Side of The Universe. A Review of Dark Energy Projects. GSSI. L'Aquila (IT).
- 2016 ongoing 2011 - ongoing
- Online course of Cosmology and Astrophysics. For Secondary School Teachers. MIUR.
- 2011 ongoing

  \* Advanced Cosmology. For M.Sc Degree in Physics. University Roma Tre.

  2008 ongoing

  \* Introduction to General Relativity, Cosmology and Astrophysics. For M.Sc
  - Introduction to General Relativity, Cosmology and Astrophysics. For M.Sc Degree in Physics. University Roma Tre.
- 2005 ongoing

2000 - 2004

- Hot Topics in Theoretical and Observational Cosmology. For Ph.D. Degree in Physics. University Roma Tre.
- 2002 2010 
   Cosmology and Extragalactic Astrophysics. For Laurea Degree in Physics. University Roma Tre.
  - Electromagnetism and Optics. For Laurea Degree in Physics. University Roma Tre.

# Student Supervision

Total number of supervised students: 40

- 8 for Bachelor Degree in Physics. (University Roma Tre)
- 21 for Master or Laurea Degree in Physics. (18 from University Roma Tre, 1 from Bologna University)
- 3 for Master or Laurea Degree in Astrophysics. (Bologna University)
- 14 for Ph.D. Degree in Physics. (University Roma Tre)
- 1 for Ph.D. Degree in Astrophysics: 1 (Bologna University)

#### Postdoctoral Fellows

2020-ongoing	<ul> <li>Gabriele Parimbelli</li> </ul>	Funding: MIUR-PRIN Cosmology Project
2020-ongoing	■ Elena Sarpa.	Funding: MIUR-PRIN Cosmology Project
2018-ongoing	<ul> <li>Alfonso Veropalumbo</li> </ul>	Funding: ASI/INAF Euclid Project
2017 - 2020	■ Jun Koda	Funding: ASI/INAF High Energy Project.
2014 - 2017	Andres Balaguera-Antoline	z Funding: ASI/INAF Euclid Project.
2013 - 2014	<ul> <li>Martina Corsi</li> </ul>	Funding: MIUR-PRIN Cosmology Project.
2007 - 2010	<ul><li>Eugenio Ursino</li></ul>	Funding: ASI/INAF High Energy Astrophysics Project.

Publications Citations Bibliometric Indices

 216 (159 on refereed journals).
 Source: SAO/NASA ADS. 21/07/2022

 10691 (7745 on refereed journals).
 Source: SAO/NASA ADS. 21/07/2022

 h-index: 43. g-index: 100. i10-index: 130.
 Source: SAO/NASA ADS. 21/07/2022