

## 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 Genoa since 02/2022  
Via Dodecaneso 33, 16146, Genova, Italy

## MEMBERSHIPS

INFN (National Institute of Nuclear Physics). University of Genoa 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	
English	C2	C2	C2	C2	C2
French	B1	B2	B1	B1	B1

## 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 Committee
- 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).

## Invited Presentations (last 5 years)

- 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*. Barolo (IT).
- 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).

## 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 ▪ *Euclid OU-LE3 splinters at General Euclid Meeting*. Helsinki (FI).
- 01/2019 ▪ *Euclid OU-LE3 Meeting*. Nice (FR).
- 07/2018 ▪ Workshop. *Paving the Way for Next Generation Cosmological Surveys*. Sexten. (IT).
- 06/2018 ▪ *Euclid OU-LE3 splinters at General Euclid Meeting*. Bonn (DE).
- 02/2018 ▪ *Joint LE3-SWG Galaxy Clustering Meeting*. Nice (FR).
- 07/2017 ▪ Workshop *Getting Ready for Science. Galaxy Clustering and SPV*. Sexten (IT).
- 06/2017 ▪ *Euclid OU-LE3 splinters at General Euclid Meeting*. London (UK).
- 02/2017 ▪ *Euclid OU-LE3 Meeting*. London (UK).
- 07/2016 ▪ Meeting *BAO and RSD. Dark Light in Obscure Acronyms*. Sexten (IT).
- 06/2016 ▪ *Euclid OU-LE3 splinters at General Euclid Meeting*. Lisbon (PT).
- 02/2016 ▪ *Joint LE3-SWG galaxy Clustering Meeting*. Milan (IT).

## Teaching

- 2022 - ongoing   ▪ *Observational Cosmology*. For M.Sc Degree in Physics. University of Genova.
- 2022 – ongoing   ▪ *Physics 1. Mechanics and Thermodynamics*. For B.Sc Degree in Engineering. University of Genova
- 2018           ▪ International School of Space Science: The Dark Side of The Universe. *A Review of Dark Energy Projects*. GSSI. L'Aquila (IT).
- 2016           ▪ Online course of *Cosmology and Astrophysics*. For Secondary School Teachers. MIUR.
- 2011 - 2022   ▪ *Advanced Cosmology*. For M.Sc Degree in Physics. University Roma Tre.
- 2008 - 2021   ▪ *Introduction to General Relativity, Cosmology and Astrophysics*. For M.Sc Degree in Physics. University Roma Tre.
- 2005 - 2021   ▪ *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.
- 2000 - 2004   ▪ *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)
  - 22 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)
  - 16 for Ph.D. Degree in Physics. (University Roma Tre)
  - 1 for Ph.D. Degree in Astrophysics: 1 (Bologna University)

## Postdoctoral Fellows

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|--------------|------------------------------|---|
| 2020-ongoing | ▪ Gabriele Paribelli         | Funding: MIUR-PRIN Cosmology Project                |
| 2020 - 2021  | ▪ Elena Sarpa.               | Funding: MIUR-PRIN Cosmology Project                |
| 2018 - 2022  | ▪ Alfonso Veropalumbo        | Funding: ASI/INAF Euclid Project                    |
| 2017 - 2020  | ▪ Jun Koda                   | Funding: ASI/INAF High Energy Project.              |
| 2014 - 2017  | ▪ Andres Balaguera-Antolinez | Funding: ASI/INAF Euclid Project.                   |
| 2013 - 2014  | ▪ Martina Corsi              | Funding: MIUR-PRIN Cosmology Project.               |
| 2007 - 2010  | ▪ Eugenio Ursino             | Funding: ASI/INAF High Energy Astrophysics Project. |

## Publications

226 (165 on refereed journals). Source: SAO/NASA ADS. 25/11/2022

## Citations

11212 (8112 on refereed journals). Source: SAO/NASA ADS. 21/07/2022

## Bibliometric Indices

h-index: 45. g-index: 102. i10-index: 136. Source: SAO/NASA ADS. 21/07/2022