

PERSONAL INFORMATION



Enzo Franco Branchini

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

POSITION

Associate Professor at the Department of Mathematics and Physics, University Roma Tre. Since 01/2008
Via della Vasca Navale 84, 00146, Roma, Italy

MEMBERSHIPS

INFN (National Institute of Nuclear Physics). Roma Tre Unit
INAF (National Institute of Astrophysics). Observatory of Rome.

WORK EXPERIENCE

- 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 (SISSA/ISAS). 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 Satellite Consortium

- 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 66 people)
- INFN-Roma Tre Unit. InDark Project
- Lead of the Local InDark Unit (currently responsible for a team of 5 people)

Department of Physics, University Roma Tre

- Coordinator for the *Erasmus+* European Program for Physics,
- Chair of the Master Thesis Evaluation Panel for Physics (Presidente della Commissione di Laurea Magistrale in Fisica)

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 Consortium (since 2012).
- Athena ESA Satellite Project (since 2014)
- INFN *InDark* Project (since 2014)
- VIPERS ESO Public Galaxy Survey (since 2008)

Recent Grants

- 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 rganizations)

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

Invited Presentations (last 5 years)

- 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 ▪ 3rd 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 ▪ 1st 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).
- 04/2017 ▪ 1st Universum Meeting *Sharing Resources and Foster New Collaboration.* Turin (IT).
- 12/2016 ▪ XIX Topical Seminars on Nuclear Physics. *Unveiling Dark Energy with Astronomical Data.* Rome (IT)
- 11/2016 ▪ Euclid Cluster Meeting. *Clustering of Clusters.* Trieste (IT).
- 10/2016 ▪ Athena WHIM meeting. *WHIM emission studies with Athena.* Eraklion (GR).
- 09/2016 ▪ SIF Congress. *Mapping the Dark Universe.* Padova (IT).
- 05/2016 ▪ Vulcano Workshop. *The Large Scale Structure Path to the Energetic Universe.* Vulcano (IT).
- 12/2015 ▪ X-CMB Euclid Meeting. *X-correlation Analyses: Beyond CMB.* Bologna (IT).
- 11/2015 ▪ 11th VIPERS meeting. *VIPERS galaxy bias.* Milan (IT).
- 08/2015 ▪ 1st Juszkievicz Symposium. *The Large Scale Structure Path to Dark Matter Detection.* Warsaw (PL).
- 06/2015 ▪ CTA Meeting. *On Cross-Correlation between Fermi and 2MASS.* Milan (IT).
- 06/2015 ▪ Euclid Meeting. *Galaxy Clustering LE3 Report.* Lausanne (CH).
- 05/2015 ▪ SAlT Meeting. *Indirect Dark Matter Detection with Astronomical Observations.* Catania (IT).
- 02/2015 ▪ UCT General Seminar. *X-correlation Signals from the γ -ray Sky.* Cape Town (SA)
- 01/2015 ▪ CERN Workshop. *Cosmological Constraints from Galaxy Redshift Surveys.* Geneva (CH).
- 10/2015 ▪ GSSI Workshop. *Cosmology with next generation galaxy surveys.* L'Aquila (IT).
- 09/2014 ▪ SIGRAV meeting. *Structure Evolution as General Relativity Test.* Alessandria (IT).
- 07/2014 ▪ DarkLight Meeting *Luminosity Fluctuations as Alternative RS Probe.* Sexten (IT).

Meeting Organization (last 5 years)

- 01/2019 ▪ OU-LE3 Meeting. Nice (FR).
- 07/2018 ▪ Workshop. *Paving the Way for Next Generation Cosmological Surveys.* Sexten. (IT).
- 06/2018 ▪ 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 ▪ OU-LE3 splinters at *General Euclid Meeting.* London (UK).
- 02/2017 ▪ OU-LE3 Meeting. London (UK).
- 07/2016 ▪ Meeting *BAO and RSD. Dark Light in Obscure Acronyms.* Sexten (IT).
- 06/2016 ▪ OU-LE3 splinters at *General Euclid Meeting.* Lisbon (PT).
- 02/2016 ▪ Joint *LE3-SWG galaxy Clustering Meeting.* Milan (IT).
- 08/2015 ▪ Meeting *From Inflation to Galaxies.* Castiglioncello (IT).
- 07/2015 ▪ Meeting *Galaxy Clustering in OU-LE3.* Sexten (IT).
- 06/2015 ▪ OU-LE3 splinters at *General Euclid Meeting.* Lausanne (CH).
- 12/2014 ▪ OU-LE3 Meeting. Paris (FR).
- 06/2014 ▪ OU-LE3 splinters at *General Euclid Meeting.* Marseille (FR).

- Teaching
- 2018
 - International School of Space Science: The Dark Side of The Universe. *A Review of Dark Energy Projects*. GSSI. L'Aquila (IT).
 - 2016 - 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 Degree in Physics. University Roma Tre.
 - 2005 - ongoing
 - *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: 37
- 3 for Bachelor Degree in Physics. (University Roma Tre)
 - 19 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)
 - 11 for Ph.D. Degree in Physics. (University Roma Tre)
 - 1 for Ph.D. Degree in Astrophysics: 1 (Bologna University)
- Postdoctoral Fellows
- 2018 - ongoing
 - Alfonso Veropalumbo. Funding: MIUR-PRIN Cosmology Project.
 - 2016 - ongoing
 - Jun Koda Funding: ASI/INAF Euclid Project.
 - 2013 - 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
- Citations
- Bibliometric Indices
- 173 (129 on refereed journals). Source: SAO/NASAADS. 8/3/2019
- 6691 (5078 on refereed journals). Source: SAO/NASAADS. 8/3/2019
- h-index: 37. g-index: 78. i10-index:102. Source: SAO/NASAADS. 8/3/2019