

Francesco D'Eugenio - Curriculum Vitæ

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Education

- Ph.D. Astrophysics, Oxford University, 2014
Supervisors: Prof. Roger L. Davies and Dr. Ryan C. W. Houghton
Title: *Kinematics and shape of galaxies in rich clusters*
- M.Sc. Astrophysics, *Summa Cum Laude*, University of Bologna, 2009 Supervisor: Prof. Luca Ciotti
- B.Sc. Astronomy, *Summa Cum Laude*, University of Bologna, 2006 Supervisor: Prof. Luca Ciotti

Research Positions

- Postdoctoral position in Galaxy Evolution, University of Ghent, April 2018 – present
Data analysis and calibration, resolved stellar populations and mock comparison sample for the LEGA-C extragalactic survey.
- SAMI Postdoctoral Research Fellow, Australian National University, March 2015 – March 2018
Data reduction and analysis, photometry, quality control and fundamental plane science for the SAMI integral-field spectroscopy survey.
- Postdoctoral Research Assistant in the Evolution of Galaxies in Clusters, Oxford University, July 2014 – March 2015
FORS2 observations: design, data reduction and analysis.

Publication Record

Citations: 334

h-index: 14

Selected publications:

- Inverse stellar population age gradients of post-starburst galaxies at $z = 0.8$ with LEGA-C, **D'Eugenio F.** et al., MNRAS, 497, 389, (2020)
- The gas-phase metallicities of star-forming galaxies in aperture-matched SDSS samples follow potential rather than mass or average surface density, **D'Eugenio F.** et al., MNRAS, 479, 1807 (2018)
- The SAMI Galaxy Survey: Gravitational Potential and Surface Density Drive Stellar Populations. I. Early-type Galaxies, Barone T. M., **D'Eugenio F.** et al., ApJ, 856, 64 (2018)
- The SAMI Galaxy Survey: mass-kinematics scaling relations, Barat D., **D'Eugenio F.** et al., MNRAS, 487, 2924 (2019)
- Gravitational Potential and Surface Density Drive Stellar Populations. II. Star-forming Galaxies, Barone T. M., **D'Eugenio F.** et al., ApJ, 898, 62 (2020)
- SH α DE: Survey description and mass-kinematics scaling relations for dwarf galaxies, Barat D., **D'Eugenio F.** et al., MNRAS, 498, 5885 (2020)
- Fast and slow rotators in the densest environments: a FLAMES/GIRAFFE IFS study of galaxies in Abell 1689 at $z=0.183$, **D'Eugenio F.** et al., MNRAS, 429, 1258 (2013)
- On the distribution of galaxy ellipticity in clusters, **D'Eugenio F.** et al., MNRAS, 451, 827 (2015)

And 26 more refereed articles.

Conference Talks

“Evolution of galaxies, their central black holes and their large-scale environment”, 20-24th September 2010, Potsdam, Germany
 “Fast and Slow Rotators in the densest environments”, 23-26th June 2014, Portsmouth, UK
 “Early Type Galaxies and their Environment: An IFS Perspective“, 2nd March 2015, Oxford, UK
 “The SAMI Galaxy Survey Scaling Relations”, 19-23rd September 2016, Hobart, Australia
 “Evidence of compaction from stellar population gradients in post-starburst galaxies at redshift $z \sim 0.8$ ”, 17-21st February 2019, Sydney, Australia

Teaching and supervising experience

Teaching assistant in the 3rd year Undergraduate Astrophysics Laboratory - Oxford University
 Teaching assistant in 3rd year Undergraduate Astrophysics - Australian National University
 Teaching assistant in 1st year Graduate Astrophysics - Universiteit Gent
 Co-supervision of Dilyar Barat - Honours Degree in Astrophysics - 2015
 Co-supervision of Tania Barone - Honours Degree in Astrophysics - 2016
 Co-supervision of Dilyar Barat - PhD in Astrophysics - 2016 - present
 Co-supervision of Tania Barone - PhD in Astrophysics - 2016 - present

Funding and research initiative (as principal investigator only)

- 2013: VLT/FORS2 (4 nights) - Mass-selected fundamental plane at $z \sim 0.5$
- 2017: Keck/KCWI (4 nights) - Stellar kinematics in low-mass galaxies
- 2018: Keck/KCWI (2 nights) - Scaling relations of low-mass galaxies
- 2018: VLT/FLAMES (6 nights) - The SH α DE H α kinematics survey

Total observing time worth approximately 750 k€.

Programming and IT

- C++, python - *excellent knowledge*
- Shell scripting - *excellent knowledge*
- Fortran, SQL, Java, IDL, GDL - *good knowledge*
- My github page: <https://github.com/fdeugenio>

Last updated: February 16, 2021