

Curriculum Vitae

Fabio Fontanot

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Education

Laurea Degree in Physics, University of Trieste (Italy) Oct. 1996 - Mar. 2002
Dissertation (March 26, 2002): *Studio delle fluttuazioni primordiali dell'Universo Locale a partire da cataloghi di galassie ottici ed infrarossi* Supervisor: Dr. P. Monaco
PhD course in Astrophysics, University of Trieste (Italy) Jan. 2003 - Dec. 2005
Dissertation (March 29, 2006): *Multiwavelength Approach to joint Formation of Galaxies and AGNs*
Supervisor: Dr. P. Monaco

Employment History

Post-doctoral position
Max Planck Institute for Astronomy (MPIA), Heidelberg (Germany) May 2006 - April 2009
Post-doctoral position
Italian National Institute for Astrophysics, Observatory of Trieste (Italy) May 2009 - July 2011
Joint Post-doctoral position
Heidelberg Institute for Theoretical Studies (HITS-gGmbH)
Institute for Theoretical Physics of Heidelberg University (ITP)
Heidelberg (Germany) Sept. 2011 - Aug. 2013
Post-doctoral position
Italian National Institute for Astrophysics, Observatory of Trieste (Italy) Sept. 2013 - Dec. 2016

Awards

Winner of the 2007 "Pietro Tacchini" Award of the Italian Astronomical Society

Selected talks

1. **Seminar** *Multi-wavelength Approach to joint formation and evolution of Galaxies and AGNs*
Department of Physics Oxford, UK, 19 Jan. 2006
2. **Seminar** *The Many Manifestations of “Downsizing”*
KITP Workshop “Building the Milky Way”
Kavli Institute for Theoretical Physics Santa Barbara, USA, 6 Oct.-14 Nov. 2008
3. **Invited Talk** *Galaxy Activity and Galaxy Morphologies in SAMs*
Annual meeting of the Astronomische Gesellschaft Heidelberg, Germany, 19-23 Sept. 2011
4. **Invited Review Talk** *Galaxy and AGN co-evolution*
11th Italian Conference on Active Galactic Nuclei Rome, Italy, 10-13 Sept. 2012
5. **Invited Talk** *Low Mass Galaxies as Tracers of Cosmic History*
Lorentz Center Workshop Leiden, The Netherlands, 22-27 Apr. 2013
6. **Contributed Talk** *Semi-analytic Galaxy Formation in Dark Energy Cosmologies*
Sino-German Workshop on Galaxy Formation and Cosmology Xi'an, China, 18-23 May 2014
7. **ITC Seminar** *The Hierarchical Origin of Galaxy Morphologies*
Harvard-Smithsonian Center for Astrophysics Cambridge, MA, USA, 14 July 2015
8. **Invited Talk** *The Hierarchical Origin of Galaxy Morphologies*
European Week of Astronomy and Space Science Athens, Greece, 4-8 July 2016
9. **Invited Talk** *Impact and Role of IMF on galaxy formation models*
Lorentz Center Workshop Leiden, The Netherlands, 5-9 Dec. 2016
10. **Contributed Talk** *Variations of the stellar initial mass function in semi-analytical models: implications for the mass assembly of galaxies in the GAEA model*
IAU Symposium 341 Osaka, Japan, 12-16 Nov. 2018
11. **Contributed Talk** *The impact of QSOs and AGN-driven outflows in shaping galaxy evolution*
Kavli Institute for Astronomy and Astrophysics Beijing, China, 21-25 Oct. 2019

Teaching and Supervising

- Lectures and specialist seminars** for the courses at the University of Trieste 2014 - present
Introduction to Astrophysics (3rd year of the degree in physics)
Theoretical Astrophysics (1st year of the master degree in physics)
- Supervisor of “Tirocinio” Students projects** at the University of Trieste 2017 - present
- Supervisor of Bachelor Student projects** at the University of Trieste 2016 - present
Alessandro A. Vigliano *Stima del contributo di galassie ospitanti AGN alla reionizzazione*
- Supervisor of PhD Student projects** at the University of Trieste 2018 - 2020
Rachele Cecchi *The impact of a variable Initial Mass Function on galaxy evolution*
- Co-supervisor of Master Students projects** at the University of Trieste 2015 - present
Luisa Maria Serrano *The origin and evolution of the cosmic UV background*
- Co-supervisor of PhD Student projects** at the University of Trieste 2012 - present
Emanuele Contini *Galaxy Populations in Clusters and Proto-Clusters*
- Co-supervisor of PhD Student projects** at the University of Southampton 2020 - present
Alba Alonso Tetilla *Semi-analytic models of black hole growth and galaxy evolution*

Membership in Local Organizing Committees

International Astrophysics school , Novigrad, Croatia <i>The Dark And The Luminous Sides Of The Formation Of Structures</i>	05-17 Sept. 2005
MPIA Workshop , Ringberg Castle, Bavaria <i>The Impact of AGN Feedback on Galaxy Formation</i>	21-25 May 2007
AGN11 11th Italian National Meeting on Active Galactic Nuclei, Trieste, Italy <i>Where Black Holes and Galaxies Meet</i>	23-26 Sept. 2014
GEE6 , Trieste, Italy <i>6th Italian National Meeting on Galaxy Evolution and Environment</i>	28-31 Oct. 2019
HACK100 , Trieste, Italy <i>Past, present and future of astrophysical spectroscopy,</i>	6-10 June 2022

Membership in Scientific Organizing Committees

International Workshop Trieste, Italy <i>Star Formation and its Role in Galaxy Evolution</i>	16-18 Oct. 2012
AGN12 12th Italian National Meeting on Active Galactic Nuclei, Napoli, Italy <i>A Multi-Messenger Perspective</i>	26-29 Sep. 2016

Membership of international scientific collaborations

GOODS (The Great Observatories Origins Deep Survey). <i>Leadership of research unit: observational determination of the QSO LF at $3.5 < z < 5.2$</i>	2003 - 2007
PanSTARRs (Panoramic Survey Telescope & Rapid Response System). <i>Defining the expected colours of $z > 5$ QSO in the proposed photometric systems and predicting expected $z > 5$ galaxy and AGN counts for the high-z survey</i>	2007 - 2009
SPICA <i>Collaboration with the Science Working Group in Galaxy Evolution</i>	2016 - 2020
EUCLID <i>Membership of Legacy Science Working Group (Galaxy Evolution and Primordial Universe) and Organization Unit - Level 3 Data</i>	2010 - present

Membership of Professional Organizations

Società Astronomica Italiana (SAIt)	2011 - Present
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Main Research Grants

Cofin 2003 (Co-I)

Formazione ed evoluzione di strutture galattiche: un campionamento profondo dell'intero spettro elettromagnetico

PRIN-INAF 2007 (Co-I)

A Deep VLT and LBT view of the Early Universe

PRIN-MIUR 2009 (Co-I - Approved but not financed)

Bridging star formation at high and low redshift to understand the formation of galaxies in the LambdaCDM cosmological model

PRIN-INAF 2010 (Co-I)

From the dawn of galaxy formation to the peak of mass assembly

PRIN-MIUR 2012 (Co-I)

Evoluzione dei barioni cosmici: effetti astrofisici e crescita delle strutture cosmiche

PRIN-INAF 2014 (Co-I)

Glittering kaleidoscopes in the sky: the multifaceted nature and role of Galaxy Clusters.

PRIN-INAF 2019 (Co-I)

Stellar population and dynamical properties of massive early-type galaxies over the last 12 Gyr: testing hierarchical galaxy formation

Observational Time Granted

Principal Investigator: WFI program 078.A-9050A ESO 2.2m - La Silla (17.5 hours)

Searching for Metal Poor Stars in Sloan Fields: a Pilot Survey 2006

INAF-TNG Observing Programs (Co-I)

Building a sample of QSO pairs to investigate the Alcock-Paczynski test 2011-2012

ESO program 092.A-0170(A) (Co-I)

An ultra-deep quasar spectrum to explore the low-density Universe. 2014

ESO Large program 194.A-2003 (Co-I)

VANDELS: A deep VIMOS survey of the CANDELS Fields 2014 - Ongoing

ESO Public Survey (Co-I)

G-CAV: Galaxy Clusters at Vircam 2016-2020

ESO program 098.A (Co-I)

Can faint AGNs ionize their surrounding Inter Galactic Medium at $z \sim 4$? 2016

INAF-LBT Observing Program (Co-I)

Can faint AGNs ionize their surrounding Inter Galactic Medium at $z \sim 4$? 2016

CAHA Observing Program (Co-I)

IMF and stellar population gradients in Bright Central Galaxies 2016

HST program GO-15626 (Co-I)

The Low-Redshift Lyman Continuum Survey 2019 - Ongoing

VST observing time (Co-I)

VST-GAME: Galaxy Assembly as a function of Mass and Environment with VST. 2020

INAF-LBT Observing Program (Co-I)

The LBT legacy of massive early-type galaxies at $z 1.2$ 2021

ESO observing time (Co-I)

Hunting for the brightest high- z QSOs in the Southern hemisphere with machine learning 2021

ESO Public Survey (Co-I)

4MOST 2022- Ongoing

Research Evaluation

Referee for

Monthly Notices of the Royal Astronomical Society (MNRAS)

The Astrophysical Journal (ApJ)

Astronomy & Astrophysics (A&A)

Programming Language and Data analysis techniques

Program Languages: FORTRAN90, C++, PYTHON

Operating Systems: Unix, Linux, Windows

Specific software: Latex, Openoffice, MIDAS, Supermongo, IDL

Languages

1. Italian (native)
2. Friulian (native)
3. English very good (reading, writing, speaking)
4. German fair (reading, speaking)

Duties

Preposto at the Astronomical Observatory in Trieste

2021 - Ongoing

List of Publications in international Journals with referee

Total number of citations: 6752 (first author: 1035) — H-Index: 38 (first author: 16)
(source SAO/NASA Astrophysics Data System at 24/03/22)

1. **Fontanot F.**, Monaco P., Borgani S., 2003, MNRAS, 341, 692 *Recovering the Initial Conditions of our Local Universe from NOG and PSCz Catalogues* (astro-ph/0301601)
<http://adsabs.harvard.edu/abs/2003MNRAS.341..692F>
2. Cristiani S., et al. 2004, ApJL, 600, 119
The Space Density of High-redshift QSOs in the GOODS Survey (astro-ph/0309049)
<http://adsabs.harvard.edu/abs/2004ApJ...600L.119C>
3. Monaco P. & **Fontanot F.**, 2005, MNRAS, 359, 283, *Feedback from quasars in star-forming galaxies and the triggering of massive galactic winds* (astro-ph/0502145)
<http://adsabs.harvard.edu/abs/2005MNRAS.359..283M>
4. **Fontanot F.**, Cristiani S., Monaco P., Nonino M., Vanzella E., Brandt W.N., Grazian A., Mao J., 2007, A&A, 461, 39 *The Luminosity Function of high-redshift QSOs. A combined analysis of GOODS and SDSS*, (astro-ph/0608664)
<http://adsabs.harvard.edu/abs/2007A%26A...461...39F>
5. Fontana A. et al., A&A, 459, 745
The Galaxy Mass Function up to $z = 4$ in the GOODS-MUSIC sample: into the epoch of formation of massive galaxies. (astro-ph/0609068)
<http://adsabs.harvard.edu/abs/2006A%26A...459..745F>
6. **Fontanot F.**, Monaco P., Cristiani S., Tozzi P., 2006, MNRAS, 373, 1173
The Effect of Stellar Feedback and Quasar Winds on the AGN Population (astro-ph/0609823)
<http://adsabs.harvard.edu/abs/2006MNRAS.373.1173F>
7. Monaco P., Murante G., Borgani S., **Fontanot F.**, 2006, ApJ, 652, 89,
Diffuse Stellar Component in Galaxy Clusters and the evolution of most massive galaxies at $z \leq 1$. (astro-ph/0610045)
<http://adsabs.harvard.edu/abs/2006ApJ...652L..89M>
8. Monaco P., **Fontanot F.**, Taffoni G., 2007, MNRAS, 375 1189,
The MORGANA MOdel for the Rise of GALaxies aNd Active galactic nuclei. (astro-ph/0610805)
<http://adsabs.harvard.edu/abs/2007MNRAS.375.1189M>
9. Ballo L. et al., 2007, ApJ, 667, 97
Black Hole Masses and Eddington Ratios of AGNs at $z < 1$: Evidence of Retriggering for a Representative Sample of X-Ray-Selected AGNs.
<http://adsabs.harvard.edu/abs/2007ApJ...667...97B>
10. **Fontanot F.**, Monaco P., Silva L., Grazian A., 2007, MNRAS, 382, 903
Reproducing the assembly of massive galaxies in the hierarchical cosmogony (astro-ph/0709.1804)
<http://adsabs.harvard.edu/abs/2007MNRAS.382..903F>
11. D'Odorico V., Bruscoli M., Saitta F., **Fontanot F.**, Viel M., Cristiani S., Monaco P., 2008, MNRAS, 389, 1727
The QSO proximity effect at redshift $< z \leq 2.6$ with the FLO approach (astro-ph/0806.3075)
<http://adsabs.harvard.edu/abs/2008MNRAS.389.1727D>
12. **Fontanot F.**, Somerville R.S., Silva L., Monaco P., Skibba R., 2009, MNRAS, 392, 553
Evaluating semi-analytic modeling of the effects of dust on Galaxy Spectral Energy Distributions. (astro-ph/0810.3918)
<http://adsabs.harvard.edu/abs/2009MNRAS.392..553F>

13. Kimm T. et al., 2009, MNRAS, 394, 1131 *The Correlation of Star Formation Quenching with Internal Galaxy Properties and Environment.* (astro-ph/0810.2794)
<http://adsabs.harvard.edu/abs/2009MNRAS.394.1131K>
14. **Fontanot F.**, De Lucia G., Monaco P., Somerville R.S., Santini, P., 2009, MNRAS, 397, 1776 *The Many Manifestations of Downsizing: Hierarchical Galaxy Formation Models confront Observations.* (astro-ph/0901.1330)
<http://adsabs.harvard.edu/abs/2009MNRAS.397.1776F>
15. Santini P. et al., 2009, A&A, 504, 751 *Star Formation and mass assembly in high redshift galaxies.* (astro-ph/0905.0683)
<http://adsabs.harvard.edu/abs/2009A%26A...504..751S>
16. Grazian A. et al., 2009, A&A, 505, 1041 *Wide and Deep UV (360nm) galaxy counts with the Large Binocular Camera (LBC) and the extragalactic background light.* (astro-ph/0906.4035)
<http://adsabs.harvard.edu/abs/2009A%26A...505.1041G>
17. Lo Faro B., Monaco P., Vanzella E., **Fontanot F.**, Silva L., Cristiani S., 2009, MNRAS 399, 827 *Faint Lyman-Break galaxies as a crucial test for galaxy formation models* (astro-ph/0906.4998)
<http://adsabs.harvard.edu/abs/2009MNRAS.399..827L>
18. Zheng X.Z., et al., 2009, ApJ, 707, 1566 *Observational Constraints on the Co-Evolution of Supermassive Black Holes and Galaxies* (astro-ph/0911.0005)
<http://adsabs.harvard.edu/abs/2009ApJ...707.1566Z>
19. Macciò A.V., Kang X., **Fontanot F.**, Somerville R.S., Kopolov S., Monaco P., 2010, MNRAS, 402, 1995 *Milky Way Satellites in a Λ CDM Universe* (astro-ph/0903.4681)
<http://adsabs.harvard.edu/abs/2010MNRAS.402.1995M>
20. Macciò A.V. & **Fontanot F.**, 2010, MNRAS, 404, 16 *How cold is Dark Matter? Constraints from Milky Way Satellites* (astro-ph/0910.2460)
<http://adsabs.harvard.edu/abs/2010MNRAS.404L..16M>
21. **Fontanot F.** & Monaco P., 2010, MNRAS, 405, 473 *The active and passive populations of Extremely Red Objects in MORGANA.* (astro-ph/0911.5346)
<http://adsabs.harvard.edu/abs/2010MNRAS.405..473F>
22. De Lucia, G., Boylan-Kolchin, M., Benson, A.J., **Fontanot, F.**, Monaco, P., 2010, MNRAS, 406, 1533 *A semi-analytic model comparison - gas cooling and galaxy mergers* (astro-ph/1003.3021)
<http://adsabs.harvard.edu/abs/2010MNRAS.406.1533D>
23. Pasquali, A., Gallazzi, A., **Fontanot, F.**, van den Bosch, F.C., De Lucia, G., Mo, H.J., Yang, X., 2010, MNRAS, 407, 937 *Stellar Ages and Metallicities of Central and Satellite Galaxies: Implications for Galaxy Formation and Evolution* (astro-ph/0912.1863)
<http://adsabs.harvard.edu/abs/2010MNRAS.407..937P>
24. Vanzella E., et al. 2010, ApJ, 725, 1011 *The Great Observatories Origins Deep Survey: Constraints To The Distribution Of The Lyman Continuum Escape Fraction of Lyman-Break Galaxies at $3.4 < z < 4.5$* (astro-ph/1009.1140)
<http://adsabs.harvard.edu/abs/2010ApJ...725.1011V>
25. Skibba R.C., van den Bosch F.C., Yang X., More S., Mo H., **Fontanot F.**, 2011, MNRAS, 410, 417 *Are Brightest Halo Galaxies Central Galaxies?* (astro-ph/1001.4533)
<http://adsabs.harvard.edu/abs/2011MNRAS.410..417S>

26. **Fontanot F.**, Pasquali, A., De Lucia, G., van den Bosch F.C., Somerville R.S., Kang, X., 2011, MNRAS, 413, 957 *The dependence of AGN activity on stellar and halo mass in semi-analytic models* (astro-ph/1006.5717)
<http://adsabs.harvard.edu/abs/2011MNRAS.413..957F>
27. De Lucia, G., **Fontanot F.**, Wilman, D., Monaco, P., 2011, MNRAS, 414, 1439, *Times, environments and channels of bulge formation in a Λ CDM cosmology* (astro-ph/1102.3186)
<http://adsabs.harvard.edu/abs/2011MNRAS.414.1439D>
28. Henriques B., Maraston C., Monaco P., **Fontanot F.**, Menci N., De Lucia G., Tonini C., 2011, MNRAS, 415, 3571 *The effect of TP-AGB stars on the evolution of the rest-frame near-infrared galaxy luminosity function* (astro-ph/1009.1392)
<http://adsabs.harvard.edu/abs/2011MNRAS.415.3571H>
29. **Fontanot F.**, De Lucia G., Wilman D., Monaco P., 2011, MNRAS, 416, 409 *The other side of Bulge Formation in a Λ CDM cosmology: Bulgeless Galaxies in the Local Universe* (astro-ph/1102.3188)
<http://adsabs.harvard.edu/abs/2011MNRAS.416..409F>
30. **Fontanot F.** & Somerville R.S., 2011, MNRAS, 416, 2962 *Evaluating semi-analytic modeling of the effects of dust on Galaxy Spectral Energy Distributions II: Dust Emission in the Infrared.* (astro-ph/1011.0776)
<http://adsabs.harvard.edu/abs/2011MNRAS.416.2962F>
31. De Lucia G., **Fontanot F.**, Wilman D., 2012, MNRAS, 419, 1324 *What determines the fraction of elliptical galaxies in clusters?* (astro-ph/1109.2599)
<http://adsabs.harvard.edu/abs/2012MNRAS.419.1324D>
32. Santini P. et al., 2012, A&A, 538, 33 *The evolving slope of the stellar mass function at $0.6 \leq z < 4.5$ from deep WFC3 data* (astro-ph/1111.5728)
<http://adsabs.harvard.edu/abs/2012A%26A...538A..33S>
33. **Fontanot F.**, Cristiani S., Santini P., Fontana A., Grazian A., Somerville R.S., 2012, MNRAS, 421, 241 *On the Evolution of the SFR Function of Massive Galaxies - Constraints at $0.4 < z < 1.8$ from the GOODS-MUSIC Catalogue.* (astro-ph/1112.0029)
<http://adsabs.harvard.edu/abs/2012MNRAS.421..241F>
34. Silva, L., **Fontanot F.**, Granato, G.L., 2012, MNRAS, 423, 746 *Fast radiative transfer of dust reprocessing in semi-analytic models with artificial neural networks* (astro-ph/1203.6295)
<http://adsabs.harvard.edu/abs/2012MNRAS.423..746S>
35. **Fontanot F.**, Cristiani S., Vanzella, E., 2012, MNRAS, 425, 1413 *On the relative Contribution of high-redshift Galaxies and Active Galactic Nuclei to Reionization* (astro-ph/1206.5810)
<http://adsabs.harvard.edu/abs/2012MNRAS.425.1413F>
36. **Fontanot F.**, Springel V., Angulo, R.E., Henriques B., 2012, MNRAS, 426, 2335 *Semi-analytic Galaxy Formation in Early Dark Energy Cosmologies* (astro-ph/1207.1723)
<http://adsabs.harvard.edu/abs/2012MNRAS.426.2335F>
37. Wilman, D., **Fontanot F.**, De Lucia, G., Erwin, P., Monaco, P., 2013, MNRAS, 433, 2986 *The Hierarchical Origins of Observed Galaxy Morphology* (astro-ph/1305.7163)
<http://adsabs.harvard.edu/abs/2013MNRAS.433.2986W>
38. **Fontanot F.**, Springel V., Puchwein E., Bianchi D., 2013, MNRAS, 436, 2672 *Semi-Analytic Galaxy Formation in $f(r)$ -Gravity Cosmologies* (astro-ph/1307.5065)
<http://adsabs.harvard.edu/abs/2013MNRAS.436.2672F>

39. **Fontanot F.**, Cristiani, S., Pfrommer, C., Cupani, G., Vanzella, E., 2014, MNRAS, 438, 2097
On the Evolution of the Ionizing Background. (astro-ph/1312.0615)
<http://adsabs.harvard.edu/abs/2014MNRAS.438.2097F>
40. Shankar, F. et al., 2014, MNRAS, 439, 3189
Environmental dependence of bulge-dominated galaxy sizes in hierarchical models
(astro-ph/1401.2460)
<http://adsabs.harvard.edu/abs/2014MNRAS.439.3189S>
41. Monaco, P., Benson, A.J., De Lucia, G., **Fontanot F.**, Borgani, S., Boylan-Kolchin, M., 2014, MNRAS, 441, 2058 *A semi-analytic model comparison: testing cooling models against hydrodynamical simulations* (astro-ph/1404.0811)
<http://adsabs.harvard.edu/abs/2014MNRAS.441.2058M>
42. **Fontanot F.**, 2014, MNRAS, 442, 3138
Variations of the Initial Mass Function in Semi-Analytical models. (astro-ph/1405.7699)
<http://adsabs.harvard.edu/abs/2014MNRAS.442.3138F>
43. Fossati, M. et al., 2015, MNRAS, 446, 2582 *Environmental dependencies on the growth of galaxies at high redshift from semi-analytical models.* (astro-ph/1410.7413)
<http://adsabs.harvard.edu/abs/2015MNRAS.446.2582F>
44. **Fontanot F.**, Villaescusa-Navarro, F., Bianchi, D., Viel, M., 2015, MNRAS, 447, 3361
Semi-Analytic Galaxy Formation in Massive Neutrino Cosmologies (astro-ph/1409.6309)
<http://adsabs.harvard.edu/abs/2015MNRAS.447.3361F>
45. **Fontanot F.**, Macciò A.V., Hirschmann M., De Lucia G., Kannan R., Somerville R.S., Wilman D., 2015, MNRAS, 451, 2968
On the dependence of galaxy morphologies on galaxy mergers (astro-ph/1507.04748)
<http://adsabs.harvard.edu/abs/2015MNRAS.451.2968F>
46. Gruppioni C. et al., 2015, MNRAS, 451, 3419
Star Formation in Herschel's Monsters versus Semi-Analytic Models (astro-ph/1506.01518)
<http://adsabs.harvard.edu/abs/2015MNRAS.451.3419G>
47. Knebe A., et al. 2015, MNRAS, 451, 4029
nIFTy Cosmology: Comparison of Galaxy Formation Models (astro-ph/1505.04607)
<http://adsabs.harvard.edu/abs/2015MNRAS.451.4029K>
48. **Fontanot F.**, Baldi M., Springel V., Bianchi D., 2015, MNRAS, 452, 978
Semi Analytic Galaxy Formation in Coupled Dark Energy Cosmologies. (astro-ph/1505.02770)
<http://adsabs.harvard.edu/abs/2015MNRAS.452..978F>
49. Kannan, R., Macciò A.V., **Fontanot F.**, Moster, B.P., Karman, W., Somerville R.S., 2015 MNRAS, 452, 4347 *The Evolution of the Bulge-to-Total Ratio in Hydrodynamical Simulations since $z = 1$.* (astro-ph/1507.04746)
<http://adsabs.harvard.edu/abs/2015MNRAS.452.4347K>
50. **Fontanot F.**, Monaco P., Shankar F., 2015, MNRAS, 453, 4112
Interpreting the possible break in the Black Hole - Bulge mass relation. (astro-ph/1508.06997)
<http://adsabs.harvard.edu/abs/2015MNRAS.453.4112F>
51. Hirschmann M., De Lucia G., **Fontanot F.**, 2016, MNRAS, 461, 1760 *Galaxy assembly, stellar feedback and metal enrichment: the view from the GAEA model* (astro-ph/1512.04531)
<http://adsabs.harvard.edu/abs/2016MNRAS.461.1760H>
52. Cristiani S., Serrano M.L., **Fontanot F.**, Vanzella E., Monaco P. 2016, MNRAS, 462, 2478
The Spectral Slope and Escape Fraction of Bright Quasars at $z \approx 3.8$: the Contribution to the Cosmic UV Background (astro-ph/1603.09351)
<http://adsabs.harvard.edu/abs/2016MNRAS.462.2478C>

53. D'Odorico V., et al. 2016, MNRAS, 463, 2690 *Metals in the $z \sim 3$ intergalactic medium: results from an ultra-high signal-to-noise ratio UVES quasar spectrum.* (astro-ph/1608.06116)
<http://adsabs.harvard.edu/abs/2016MNRAS.463.2690D>
54. **Fontanot F.**, De Lucia G., Hirschmann M., Bruzual G., Charlot S., Zibetti S., 2017, MNRAS, 464, 3812 *Variations of the initial mass function in semi-analytical models: implications for the mass assembly and the chemical enrichment of galaxies in the GAEA model.* (astro-ph/1606.01908)
<http://adsabs.harvard.edu/abs/2017MNRAS.464.3812F>
55. Zoldan A., De Lucia G., Xie L., **Fontanot F.**, Hirschmann M., 2017, MNRAS, 465, 2236 *The Clustering and Halo Occupation Distribution of HI-selected Galaxies in Hierarchical Models of Galaxy Formation.* (astro-ph/1610.02042)
<http://adsabs.harvard.edu/abs/2017MNRAS.465.2236Z>
56. De Lucia G., **Fontanot F.**, Hirschmann M., 2017, MNRAS, 466, 88 *AGN feedback and the origin of the α -enhancement in early type galaxies - insights from the GAEA model* (astro-ph/1611.04597)
<http://adsabs.harvard.edu/abs/2017MNRAS.466L..88D>
57. Japelj J. et al., 2017, MNRAS, 468, 389 *Constraints on the Lyman continuum escape fraction for faint star forming galaxies* (astro-ph/1612.06401)
<http://adsabs.harvard.edu/abs/2017MNRAS.468..389J>
58. Xie L., De Lucia G., Hirschmann M., **Fontanot F.**, Zoldan A., 2017, MNRAS, 469, 968 *H₂-based star formation laws in semi-analytic models of galaxy formation* (astro-ph/1611.09372)
<http://adsabs.harvard.edu/abs/2017MNRAS.469..968X>
59. Pujol A., et al. 2017, MNRAS, 469, 749 *nIFTy Cosmology: the clustering consistency of galaxy formation models* (astro-ph/1702.02620)
<http://adsabs.harvard.edu/abs/2017MNRAS.469..749P>
60. **Fontanot F.**, Hirschmann M., De Lucia G., 2017, ApJL, 842, 14 *Strong stellar-driven outflows shape the evolution of galaxies at cosmic dawn.* (astro-ph/1703.02983)
<http://adsabs.harvard.edu/abs/2017ApJ...842L..14F>
61. Gruppioni C., et al. 2017, PASA, 34, 55 *Tracing the evolution of dust obscured star-formation and accretion back to the reionisation epoch with SPICA* (astro-ph/1710.02353)
<http://adsabs.harvard.edu/abs/2017PASA...34...55G>
62. Knebe A., et al. 2018, MNRAS, 475, 2936 *Cosmic CARNage I: on the calibration of galaxy formation models* (astro-ph/1712.06420)
<http://adsabs.harvard.edu/abs/2018MNRAS.475.2936K>
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