PERSONAL INFORMATION

Fabio Fontanot

Home: Via della Chiesa, 25, 33050, Bagnaria Arsa, Udine (Italy)

Work: INAF - Osservatorio Astronomico di Trieste,

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Gender Male | Date of birth 2 April 1977 | Nationality Italian

EDUCATION AND TRAINING

Jan. 2003 – Dec. 2005 — PhD course in Astrophysics - University of Trieste (Italy)

Dissertation (March 29, 2006): *Multiwavelength Approach to joint Formation of Galaxies and AGNs* – Supervisor: Dr. P. Monaco

Oct. 1996 – Mar. 2002 — Laurea Degree in Physics, University of Trieste (Italy)

Dissertation (March 26, 2002): *Studio delle fluttuazioni primordiali dell'Universo Locale a partire da cataloghi di galassie ottici ed infrarossi* – Supervisor: Dr. P. Monaco

EMPLOYMENT HISTORY

Sep. 2013 – Dec. 2016 — Post-doctoral position

Italian National Institute for Astrophysics, Observatory of Trieste (Italy)

Sep. 2011 – Aug. 2013 — Joint Post-doctoral position

Heidelberg Institute for Theoretical Studies (HITS-gGmbH)

Institute for Theoretical Physics of Heidelberg University (ITP), Heidelberg (Germany)

May 2009 – July 2011 — Post-doctoral position

Italian National Institute for Astrophysics, Observatory of Trieste (Italy)

May 2006 – Apr. 2009 — Post-doctoral position

Max Planck Institute for Astronomy (MPIA), Heidelberg (Germany)

AWARDS

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

SELECTED TALKS

2023 **Contributed Talk**
Variations of the Stellar Initial Mass Function in Semi-Analytic Models
IAC Conference, Tenerife, Spain

2022 **Contributed Talk**
Variations of the Stellar Initial Mass Function in Semi-Analytic Models
Chalmers University of Technology, Gothenburg, Sweden

2019 **Contributed Talk**
The impact of QSOs and AGN-driven outflows in shaping galaxy evolution
Kavli Institute for Astronomy and Astrophysics, Beijing, China

2018 **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

2016 **Invited Talk**
Impact and Role of IMF on galaxy formation models
Lorentz Center Workshop, Leiden, The Netherlands

2016 **Invited Talk**
The Hierarchical Origin of Galaxy Morphologies
European Week of Astronomy and Space Science, Athens, Greece

2015 **ITC Seminar**
The Hierarchical Origin of Galaxy Morphologies
Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA

2014 **Contributed Talk**
Semi-analytic Galaxy Formation in Dark Energy Cosmologies
Sino-German Workshop on Galaxy Formation and Cosmology, Xi'an, China

2013 **Invited Review Talk**
Low Mass Galaxies as Tracers of Cosmic History
Lorentz Center Workshop, Leiden, The Netherlands

2008 **KITP Workshop Seminar**
The Many Manifestations of Downsizing
Kavli Institute for Theoretical Physics, Santa Barbara, USA

TEACHING AND SUPERVISING

2014 - present — Lectures and specialist seminars at the University of Trieste

Introduction to Astrophysics (3rd year of the degree in physics)

Theoretical Astrophysics (1st year of the master degree in physics)

2017 - present — Supervisor of "Tirocinio" Students projects at the University of Trieste

2016 - present — Supervisor of Bachelor Students at the University of Trieste

2015 - present — Co-Supervisor of Master Students at the University of Trieste

2019 - present — Referee ("Contro-relatore") of Master Students projects at the University of Trieste

2012 - present — Co-Supervisor of PhD Student at the University of Trieste

2018 - 2020 — Supervisor of PhD Student at the University of Trieste

Rachele Cecchi *The impact of a variable Initial Mass Function on galaxy evolution*

2020 - present — Co-Supervisor of PhD Student at the University of Southampton

Alba Alonso-Tetilla *Semi-analytic models of black hole growth and galaxy evolution*

INSTITUTIONAL DUTIES

2017-present — *Commettee Member* for "Commissione Giudicatrice Assegni di Ricerca" (Post-doc) for Universitá di Trieste

2019-present — *Commettee Member* for "Commissione Giudicatrice Assegni di Ricerca" (Post-doc) for INAF

2021-present — *Preposto* at the Astronomical Observatory in Trieste

2023-present — RSN1 representative for the Astronomical Observatory in Trieste

RESEARCH EVALUATION

2005–present — Referee for main international journals

Monthly Notices of the Royal Astronomical Society (MNRAS)

The Astrophysical Journal (ApJ)

Astronomy & Astrophysics (A&A)

2023–present — External Referee

Swiss National Science Fundation (SNSF)

European Research Council (ERC)

MEMBERSHIP OF INTERNATIONAL SCIENTIFIC COLLABORATIONS

2021-present 4MOST-StePS

Theoretical predictions for the interpretation and scientific exploitation of the data

2010-present EUCLID

Membership of Legacy Science Working Group (Galaxy Evolution and Primordial Universe) and Organization Unit - Level 3 Data

2014–2023 VANDELS: A deep VIMOS survey of the CANDELS Fields

Core Team

2016-2020 SPICA

Collaboration with the Science Working Group in Galaxy Evolution

2007-2009 Panoramic Survey Telescope & Rapid Response System (PanSTARRs)

Role: 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

2003-2007 The Great Observatories Origins Deep Survey (GOODS)

Leadership of research unit: observational determination of the QSO LF at $3.5 < z < 5.2$

MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS

2011-present Società Astronomica Italiana (SAIt)

MEMBERSHIP IN LOCAL ORGANIZING COMMITTEES

2023 IFPU Focus Week

Unlocking the potential of JWST, Euclid and SKA - high-z galaxy evolution & cosmology
Trieste, Italy

2022 HACK100

Past, present and future of astrophysical spectroscopy, Trieste, Italy

2019 6th Italian National Meeting on Galaxy Evolution and Environment
Trieste, Italy

2014 11th Italian National Meeting on Active Galactic Nuclei

Where Black Holes and Galaxies Meet, Trieste, Italy

2007 MPIA Workshop

The Impact of AGN Feedback on Galaxy Formation, Ringberg Castle, Bavaria

2005 International Astrophysics school

The Dark and the Luminous Sides of The Formation of Structures, Novigrad, Croatia

MEMBERSHIP IN SCIENTIFIC ORGANIZING COMMITTEES

2016 12th Italian National Meeting on Active Galactic Nuclei

AGN12: A Multi-Messenger Perspective, Napoli, Italy

2012 International Workshop

Star Formation and its Role in Galaxy Evolution, Trieste, Italy

MAIN RESEARCH GRANTS

2023   PRIN-MUR (Co-I)
From ProtoClusters to Clusters in one Gyr: the swift ripening of the most massive structures of the Universe

2022   INAF Theory Grant (Co-I)
The critical role of DUST in the cosmic barYon cycle (DUSTY)

2019   PRIN-INAF (Co-I)
Stellar population and dynamical properties of massive early-type galaxies over the last 12 Gyr: testing hierarchical galaxy formation

2014   PRIN-INAF (Co-I)
Glittering kaleidoscopes in the sky: the multifaceted nature and role of Galaxy Clusters.

2012   PRIN-MIUR (Co-I)
Evoluzione dei barioni cosmici: effetti astrofisici e crescita delle strutture cosmiche

2010   PRIN-INAF (Co-I)
From the dawn of galaxy formation to the peak of mass assembly

2009   PRIN-MIUR - Approved but not financed (Co-I)
Bridging star formation at high and low redshift to understand the formation of galaxies in the LambdaCDM cosmological model

2007   PRIN-INAF (Co-I)
A Deep VLT and LBT view of the Early Universe

2003   Cofin (Co-I)
Formazione ed evoluzione di strutture galattiche: un campionamento profondo dell'intero spettro elettromagnetico

OBSERVATIONAL TIME GRANTED (PI)

2006   WFI program 078.A-9050A at ESO 2.2m - La Silla (PI)
Searching for Metal Poor Stars in Sloan Fields: a Pilot Survey (17.5 Hours)

OBSERVATIONAL TIME GRANTED (PROGRAMS)

2022–ongoing   ESO Public Survey (Co-I)
4MOST

2019–ongoing   HST program GO-15626 (Co-I)
The Low-Redshift Lyman Continuum Survey

2014–2020   ESO Large program 194.A-2003 (Core Team)
VANDELS: A deep VIMOS survey of the CANDELS Fields

2016-2020   ESO Public Survey (Co-I)

G-CAV: Galaxy Clusters at Vircam

2011–2012 INAF-TNG Observing Programs (Co-I)

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

OBSERVATIONAL TIME GRANTED (CO-I)

2023 ESO Observing time P111.24X8 (Co-I)

Finding bright z 5 QSOs in the Southern Hemisphere with machine learning

2022 INAF-TNG observing time (Co-I)

QUBRICS hunt for bright, high-redshift QSOs: ending stage one

ESO Observing time P110.247W (Co-I)

Finding bright z 5 QSOs in the Hyper Suprime-Cam Subaru Strategic Survey

ESO Observing time P110.23WP (Co-I)

Continuing the search for high redshift QSOs in the Southern sky

2021 ESO Observing time P109.23FB (Co-I)

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

INAF-LBT Observing Program (Co-I)

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

2020 ESO Observing time P106.214A (Co-I)

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

2016 CAHA Observing Program (Co-I)

IMF and stellar population gradients in Bright Central Galaxies

INAF-LBT Observing Program (Co-I)

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

ESO program 098.A (Co-I)

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

2014 ESO program 092.A-0170(A) (Co-I)

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

COMPUTATIONAL TIME GRANTED (PI)

2020 CHIPP computing time

Expanding GAEA with CHIPP - extension request

2019 CHIPP computing time

Expanding GAEA with CHIPP

COMPUTATIONAL TIME GRANTED (CO-I)

2023 **Pleiadi Call 2 computing time**
Unlocking the potential of JWST, Euclid, and SKA - high-z galaxy evolution and cosmology

PERSONAL SKILLS

Mother tongue Friulian – Italian

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
Very Good	Very Good	Very Good	Very Good	Very Good
Fair	Fair	Fair	Fair	Fair

(English = Very Good row, German = Fair row)

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

Computer skills

Program Languages:	FORTRAN90, C++, PYTHON
Operating Systems:	Unix, Linux, Windows
Specific software:	Latex, Openoffice, MIDAS, Supermongo, IDL

Driving licence B

LIST OF PUBLICATIONS IN INTERNATIONAL JOURNALS WITH REFEREE

Total number of citations: 8613 — H-Index: 42
First Author citations: 1166 — H-Index: 17
(source SAO/NASA Astrophysics Data System at 28/03/24)

2003

[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`

2004

[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`

2005

[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`

2006

[4] 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`

[5] **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`

[6] 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`

2007

[7] **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`

[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`

2008

[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 $< z >= 2.6$ with the FLO approach (astro-ph/0806.3075)
`http://adsabs.harvard.edu/abs/2008MNRAS.389.1727D`

2009

[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`

2010

[19] Macciò A.V., Kang X., **Fontanot F.**, Somerville R.S., Koposov S., Monaco P.,2010, MNRAS, 402, 1995 *Milky Way Satellites in a ΛCDM 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..705F`

[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`

2011

[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 ΛCDM 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 ΛCDM 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`

2012

[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`

2013

[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`

2014

[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`

2015
[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`

2016
[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 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`

2017
[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.*
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