

Michele Fumagalli

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Scientific Interests

Gas flows around galaxies, galaxy formation and evolution, the role of environment, absorption line systems, physics of the interstellar medium, star formation, stellar initial mass function.

Academic History

- 2020 **Professor**, *University of Milano Bicocca*.
- 2018 **Professor**, *Durham University*.
- 2017 **Associate Professor (Reader)**, *Durham University*.
- 2014 **Assistant Professor (Lecturer)**, *Durham University*.
- 2013 **Postdoctoral Fellow**, *Carnegie Observatories, Princeton University*.

Education

- 2016 **Postgraduate Certificate in Academic Practice**, *Durham University, UK*.
- 2012 **Ph.D. in astrophysics**, *University of California, Santa Cruz, USA*.
- 2010 **Master in astrophysics**, *University of California, Santa Cruz, USA*.
- 2008 **Laurea specialistica (MSc)**, *University of Milano Bicocca, Italy*.
- 2006 **Laurea triennale (BSc)**, *University of Milano Bicocca, Italy*.

Selected Awards and Fellowships

- 2017 **Abilitazione Nazionale Italiana**, *Professore Associato e Ordinario*.
- 2015 **Fellow of the Higher Education Academy**.
- 2014-2015 **Carnegie Visiting Associate**, *Carnegie Observatories*.
Visiting fellowship at Carnegie Observatories.
- 2012 **Lyman Spitzer Fellowship**, *Princeton University*.
Postdoctoral fellowship in theoretical astrophysics.
- 2012 **Carnegie-Princeton Fellowship**, *Carnegie Observatories, Princeton University*.
Postdoctoral fellowship in observational astrophysics.
- 2012 **Hubble Fellowship**, *Carnegie Observatories*.
Awarded to highly qualified recent postdoctoral scientists to conduct independent research.

- 2012 **CfA Fellowship**, (declined), The Harvard-Smithsonian Center for Astrophysics.
Awarded to an outstanding researcher displaying significant promise in theory or observation.
- 2012 **Miller Research Fellowship**, (declined), University of California, Berkeley.
Awarded to exceptional young scientists of great promise.
- 2011 **Price Prize in Cosmology and AstroParticle Physics**, CCAPP, Ohio State University.
Awarded in recognition of research excellence in cosmology and astro-particle physics.
- 2011 **Chancellor's Dissertation Year Fellowship**, UCSC.
Awarded based on the academic achievement of the nominee.
- 2010 **Whitford Prize**, Department of Astronomy, UCSC.
Awarded for outstanding performance during the first and second years.
- 2008 **Regents' fellowship**, UCSC.
Awarded to promising first-year graduate students.

Grant History

- 2020 **Durham Astronomy Consolidated Grant**, STFC, (Project co-PI).
- 2019 **NASA grant**, HST-GO-15637, (Science Co-PI).
- 2018 **ERC Attrattività**, Fondazione Cariplo, (PI).
- 2017 **ERC Starting Grant**, ERC, (PI).
- 2017 **Durham Astronomy Consolidated Grant**, STFC, (Project PI).
- 2015 **NASA grant**, HST-GO-14127, (Science PI).
- 2012 **NASA Hubble Fellowship**, grant HF-51305.01-A, (PI).
- 2010 **HIPACC grant**, University California, (PI).

Talks and Seminars

- Dec., 2019 **Joint Astronomy Colloquium**, *MPA-MPE-ESO*, invited.
Shedding light on gas around galaxies across cosmic times
- Oct., 2019 **CGM in Berlin 2019**, *Max Planck Society*, invited.
Gas around galaxies at $z \sim 2 - 3$: linking emission and absorption with large surveys
- Jun., 2019 **What Matter(s) Between Galaxies**, *Abbazia di Spineto*, SOC.
Gas around galaxies: connecting emission and absorption with large surveys
- Mar., 2019 **Astronomy Seminar**, *Nottingham University*, invited.
Shedding light on gas around galaxies across cosmic time
- Dec., 2018 **Twenty years of science at Bicocca**, *Milano-Bicocca University*, invited review.
Astrophysics ± 20 : Deeper, Sharper, and Bigger
- Nov., 2018 **CASTOR UV space observatory**, *The Royal Observatory Edinburgh*, invited review.
The galaxy-IGM connection
- Jun., 2017 **What Matter(s) Around Galaxies**, *Durham University*, SOC/LOC co-chair.
Probing the gaseous environment of star-forming galaxies in absorption and emission
- Apr., 2017 **Seminar**, *Department of Physics, University of Milano-Bicocca*, invited.
MUS(E)ing over gas flows as drivers of galaxy evolution
- May., 2016 **Cavendish Astrophysics Seminar**, *University of Cambridge*, invited.
Gas flows as fuel for star formation: a spotlight on strong absorption line systems
- Apr., 2016 **Astronomy Seminar**, *ETH Zurich*, invited.
Gas flows as fuel for star formation: a spotlight on strong absorption line systems
- Mar., 2016 **Astronomy Seminar**, *Stockholm University*, invited.
Gas flows as fuel for star formation: a spotlight on strong absorption line systems

- Sep., 2015 **Astronomy Seminar, INAF/Trieste**, invited.
Gas flows as fuel for star formation: a spotlight on strong absorption line systems
- Jun., 2015 **IGM@50, INAF/Firenze**, invited.
Probing gas flows near galaxies: a spotlight on Lyman Limit Systems
- Jun., 2014 **Intergalactic Matters, MPIA, Heidelberg**, invited.
A shot in the dark: the star formation rates of DLAs at $z \sim 2 - 3$
- Apr., 2014 **Colorful galaxies: a conference for Peppo Gavazzi's birthday, Como, Italy**, invited.
Can we use $H\alpha$ to trace star formation rates?
- Apr., 2014 **Exploiting VST ATLAS... and its sister surveys, Durham University**, invited.
ATLAS search for Lyman Limit Systems in quasar pairs.
- Mar., 2014 **Astronomy Friday Lunch Talks, Durham University**.
The importance of stochastic effects in stellar population synthesis.
- Jan., 2014 **DEX meeting, Durham University**.
Investigations on the gaseous environment of distant galaxies.
- Dec., 2013 **TAPIR seminar, Caltech**, invited.
Investigations on the gaseous environment of distant galaxies.
- Oct., 2013 **Metal Production and Distribution in a Hierarchical Universe, Rencontres de l'Observatoire de Paris 2013 - ESO Workshop**, invited review.
IGM abundances in the high-redshift universe.
- Aug., 2013 **Santa Cruz Galaxy Workshop, UCSC**.
Lyman limit systems and the circumgalactic medium at $z \sim 2 - 3$.
- Jun., 2013 **Intergalactic Interactions, Higgs Centre, Edinburgh**, invited.
Lyman limit systems and the circumgalactic medium at $z \sim 2 - 3$.
- Jun., 2013 **ENIGMA workshop, MPIA**, invited.
Lyman limit systems and the circumgalactic medium at $z \sim 2 - 3$.
- Apr., 2013 **Lunch Talk, Carnegie Observatories**.
Beyond the disk: The role of halo gas in galaxy formation.
- Mar., 2013 **Hubble Fellows Symposium, STScI, Baltimore**.
Optically-thick hydrogen in the $z=3$ universe
- Dec., 2012 **University of Milano-Bicocca, Milan**, invited.
The gaseous environment of distant galaxies
- Nov., 2012 **UT Astronomy Colloquium, Austin**, invited.
The gaseous environment of distant galaxies
- Sep., 2012 **Keck Science Meeting, San Diego**.
Pristine gas two billion years after the Big Bang
- Jun., 2012 **Metals in Tuscany, INAF/Firenze**, invited.
Pristine gas two billion years after the Big Bang
- May., 2012 **Price Prize lecture, CCAPP Ohio State University**, invited.
Cosmology with absorption line systems
- Apr., 2012 **Astronomy Colloquium, Osservatorio Astronomico di Brera**, invited.
Cosmology with absorption line systems
- Mar., 2012 **Turbulence in Cosmic Structure Formation, Arizona State University**.
Detection of pristine gas two billion years after the Big Bang
- Jan., 2012 **DARK Cake Meeting, DARK Cosmology Centre**.
Detecting cold accretion and metal poor gas around galaxies
- Jan., 2012 **219th AAS Meeting, Austin, TX**.
Exploring the gas cycle in high-redshift galaxies: a joint effort of theory and observations

- Dec., 2011 **Theory meeting of the Galaxy and Cosmology group, MPIA Heidelberg.**
Probing inflow in high-redshift galaxies
- Oct., 2011 **Theoretical Astrophysics Center seminar, UC Berkeley, invited.**
Exploring the gas cycle in high-redshift galaxies: a joint effort of theory and observations
- Oct., 2011 **Lunch Talk, Carnegie Observatories.**
Exploring the gas cycle in high-redshift galaxies: a joint effort of theory and observations
- Oct., 2011 **Astronomy Tea Talk, Caltech.**
Exploring the gas cycle in high-redshift galaxies: a joint effort of theory and observations
- Aug., 2011 **Santa Cruz galaxy workshop, Santa Cruz.**
Cold streams and primordial gas at high redshift
- Jul., 2011 **Celebrating the career of A. Wolfe, Schloss Ringberg, invited.**
Detecting cold streams with absorption line systems
- Jul., 2011 **MPIA, Heidelberg.**
Stochastic star formation and IMF (non) variation
- Jun., 2011 **Odyssey of cosmic baryons, Marseille.**
Detecting cold streams with absorption line systems
- Jun., 2011 **Gas in galaxies, Kloster Seeon, Germany.**
Detecting cold streams with absorption line systems
- Dec., 2010 **CASS, UCSD, San Diego.**
Gas in and around galaxies
- Aug., 2010 **Santa Cruz galaxy workshop, Santa Cruz.**
Gas in simulations of $z > 2$ galaxies
- May, 2010 **Como+Milano+Heidelberg+Marseille.**
Images and simulations to connect gas and stars in $z > 2$ galaxies
- Apr., 2010 **UCSC, Santa Cruz.**
Hunting gas and stars in galaxies across the Universe
- Aug., 2009 **Santa Cruz Galaxy Workshop, Santa Cruz.**
A shot in the dark: probing galaxies giving rise to DLAs at $z > 2$
- Aug., 2009 **UCSC Friday Lunch Talk, Santa Cruz.**
Molecular gas deficiency in HI poor galaxies
- Jun., 2009 **University of Chicago, Chicago.**
A shot in the dark: imaging of DLAs
- Mar., 2009 **Università dell'Insubria, Como, Italy.**
Star formation $z = 0 - 3$
- Dec., 2008 **CASS, UCSD, San Diego.**
The star formation rate and gas content in local spiral galaxies
- Jul., 2008 **Università di Milano-Bicocca, Milano, Italy.**
The relationship between gas content and star formation rate in spiral galaxies

Proposal History (principal investigator or primary co-investigator)

- 2019 ESO/VLT; 43 hours, P105.
- 2019 Hubble Space Telescope; 8 orbits, cycle 27.
- 2019 JCMT/SCUBA-2; 30 hours, 2019B.
- 2018 Hubble Space Telescope; 90 orbits, cycle 26 (LP).
- 2017 ESO/VLT; 250 hours, P101 (LP).
- 2018 JCMT/SCUBA-2; 16 hours, 2018A.

2017 ESO/VLT; 36 hours, P100.
 2017 JCMT/SCUBA-2; 9 hours, 2017B.
 2016 ESO/VLT; 18 hours, P99.
 2016 Keck Telescope; 2 nights, 2016B.
 2016 Hubble Space Telescope; 96 orbits, cycle 24 (LP).
 2016 JCMT/SCUBA-2; 9 hours, 2016B.
 2016 Keck Telescope; 1 night, 2016A.
 2016 WHT; 12 nights, 2016A.
 2016 ESO/VLT; 106 hours, P97-100 (LP).
 2015 WHT; 9 nights, 2015B.
 2015 ESO/VLT; 9 hours, P96.
 2015 Hubble Space Telescope; 55 orbits, cycle 23.
 2014 ESO/VLT; 28 hours, P95.
 2014 ESO/VLT; 5 hours, P94.
 2014 Gemini-S Telescope; 30 hours, 2014A.
 2014 Magellan Telescope; 4 nights, 2014A.
 2013 Magellan Telescope; 5 nights, 2013B.
 2013 Keck Telescope; 1 night, 2013B.
 2012 Keck Telescope; 1 night, 2013A.
 2012 Magellan Telescope; 4 nights, 2013A.
 2012 Magellan Telescope; 4 nights, 2012B.
 2011 IRAM 30m Telescope; 64 hours, 2011B.

Teaching and Advising

2019- Astrophysics Laboratory; MSc at University of Milano-Bicocca.
 2018-2019 Radiative processes in astrophysics; PhD lecture series at Durham University.
 2018 The role of baryonic process in galaxy formation and evolution; PhD lecture series at University of Milano-Bicocca.
 2016-2017 PHYS2651: Physics in Society, BSc at Durham University.
 2014-2019 PHYS1081: Introduction to Astronomy, BSc at Durham University.
 2014-2018 PHYS1101: Discovery Skills in Physics, BSc at Durham University.
 2009 Ay2: Overview of the Universe, BSc at UCSC.

PhD Students Mr. Calvin Sykes (2017-), Durham University.
 Ms. Louise Welsh (2017-), Durham University.
 Mr. Ruari Mackenzie (2014-2018), Durham University (PhD, 2018).
 Mr. Greg Ashworth (2014-2018), Durham University (PhD, 2018).

PDRAs Dr. Rajeshwari Dutta (2019-), Durham University.
 Dr. Matteo Fossati (2018-), Durham University.
 Dr. Emma Lofthouse (2018-), Durham University.
 Dr. Elisabeta Lusso (2017-2019), Junior Research Fellow, Durham University.

Dr. Richard Bielby (2017-2019), Durham University.

Membership and Activities

- 2018- Peer reviewer, Nature
- 2018- Peer reviewer, European Research Council
- 2017- Peer reviewer, Nature Astronomy
- 2016-2018 Member of Van Mildert College Council, Durham University
- 2016- E-ELT HIRES Galaxy and IGM Working Group
- 2012- Peer reviewer, Astrophysical Journal
- 2012- Peer reviewer, Monthly Notices of the Royal Astronomical Society
- 2012- Peer reviewer, Astronomy and Astrophysics
- 2011-2012 Graduate Student Mentor, UCSC Astronomy & Astrophysics Department
- 2011-2015 Member, European Physical Society
- 2011-2012 Member, American Astronomical Society
- 2008-2015 Member, Società Italiana di Fisica

Refereed publications

1. Sykes, C., **Fumagalli, M.**, Cooke, R., Theuns, T. 2019, MNRAS in press (arXiv:1912.06163). *Determining the primordial helium abundance and UV background using fluorescent emission in star-free dark matter haloes.*
2. Lofthouse, E.K., **Fumagalli, M.**, Fossati, M. et al. 2019, MNRAS in press (arXiv:1910.13458). *MUSE Analysis of Gas around Galaxies (MAGG) – I: Survey design and the environment of a near pristine gas cloud at $z \sim 3.5$.*
3. Fossati, M., **Fumagalli, M.**, Lofthouse, E.K. et al. 2019, MNRAS, 490, 1451. *The MUSE Ultra Deep Field (MUDF). II. Survey design and the gaseous properties of galaxy groups at $0.5 < z < 1.5$.*
4. Umehata, H., **Fumagalli, M.**, Smail, I. et al. 2019, Science, 366, 97. *Gas filaments of the cosmic web located around active galaxies in a proto-cluster.*
5. Becker, G.D. et al. 2019, ApJ, 883, 163. *The Evolution of OI over $3.2 < z < 6.5$: Reionization of the Circumgalactic Medium.*
6. Jachym, P. et al. 2019, ApJ, 883, 145. *ALMA unveils widespread molecular gas clumps in the ram pressure stripped tail of the Norma jellyfish galaxy.*
7. **Fumagalli, M.** 2019, Nature Astronomy, 3, 796. *Thirsty galaxies thriving on gas streams.*
8. Sykes, C., **Fumagalli, M.**, Cooke, R., Theuns, T., Benitez-Llambay, A. 2019, MNRAS, 487, 609. *Fluorescent rings in star-free dark matter haloes.*
9. Mackenzie, R., **Fumagalli, M.**, Theuns, T. et al. 2019, MNRAS, 487, 5070. *Linking gas and galaxies at high redshift: MUSE surveys the environments of six damped Ly α galaxies at $z \sim 3$.*
10. Welsh, L., Cooke, R., **Fumagalli, M.** 2019, MNRAS, 487, 3363. *Modelling the chemical enrichment of Population III supernovae: The origin of the metals in near-pristine gas clouds.*

11. Bielby, R.M. et al. 2019, MNRAS, 86, 21. *Quasar Sightline and Galaxy Evolution (QSAGE) Survey - I. The Galaxy Environment of OVI Absorbers up to $z = 1.4$ around PKS 0232-04.*
12. Lusso, E., **Fumagalli, M.**, Fossati, M., et al. 2019, MNRAS, 485, 62. *The MUSE Ultra Deep Field (MUDF). I. Discovery of a group of Ly α nebulae associated with a bright $z \approx 3.23$ quasar pair.*
13. Furniss, A., Worseck, G., **Fumagalli, M.** et al. 2019, AJ, 157, 41. *Spectroscopic Redshift of the Gamma-Ray Blazar B2 1215+30 from Ly α Emission.*
14. Cook, D.O. et al. 2019, MNRAS, 484, 4897. *Star Cluster Catalogs for the LEGUS Dwarf Galaxies.*
15. Fossati, M., **Fumagalli, M.**, Gavazzi, G. et al. 2019, MNRAS, 484, 2212. *MUSE sneaks a peek at extreme ram-pressure stripping events - IV. Hydrodynamic and gravitational interactions in the Blue Infalling Group.*
16. Grasha, K. et al. 2019, 483, 4707. *The Spatial Relation between Young Star Clusters and Molecular Clouds in M 51 with LEGUS.*
17. P. Frédéric Robert et al. 2019, MNRAS, 483, 2736. *Exploring the origins of a new, apparently metal-free gas cloud at $z = 4.4$.*
18. Jauzac, M. et al. 2019, MNRAS, 483, 3082. *The core of the massive cluster merger MACS J0417.5-1154 as seen by VLT/MUSE.*
19. Arrigoni Battaia, F., Chen, C.-C., **Fumagalli, M.** et al. 2018, A&A, 620, 202. *Over-density of submillimeter galaxies around the $z=2.3$ MAMMOTH-1 nebula.*
20. Boselli, A. et al. 2018, A&A, 620, 164. *A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE).IV. A tail of Ionised Gas in the Merger Remnant NGC 4424.*
21. Krumholz, M. R., Adamo, A., **Fumagalli, M.**, Calzetti, D. 2019, MNRAS, 482, 3550. *SLUG IV: A Novel Forward-Modelling Method to Derive the Demographics of Star Clusters.*
22. Caruso, D., Haardt, F., **Fumagalli, M.**, Cantalupo, S. 2019, MNRAS, 482, 2833. *MCMC determination of the cosmic UV background at $z \approx 0$ from H α fluorescence.*
23. Cooke, R. & **Fumagalli, M.** 2018, Nature Astronomy, 2, 957. *Measurement of the primordial helium abundance from the intergalactic medium.*
24. Krogager, J.-K. et al. 2018, A&A, 619, 142. *Dissecting cold gas in a high-redshift galaxy using a lensed background quasar.*
25. Grasha, K. et al. 2018, MNRAS, 481, 1016. *Connecting Young Star Clusters to CO Molecular Gas in NGC 7793 with ALMA-LEGUS.*
26. Ashworth, G., **Fumagalli, M.**, Adamo, A., Krumholz, M.R. 2018, MNRAS, 480, 3091A. *Theoretical predictions for IMF diagnostics in UV spectroscopy of star clusters.*
27. Hunter, D. et al. 2018, AJ, 156, 21. *A comparison of young star properties with local galactic environment for LEGUS/LITTLE THINGS dwarf irregular galaxies.*
28. Boselli, A. et al. 2018, A&A, 615, 114. *A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE).III. Star formation in the stripped gas of NGC 4254.*
29. Chehade, B. et al. 2018, MNRAS, 478, 1649. *Two more, bright, $z > 6$ quasars from VST ATLAS and WISE .*
30. Boselli, A. et al. 2018, A&A, 614, 56. *A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE).I. Introduction to the Survey.*

31. Fossati, M. et al. 2018, A&A, 614, 57. *A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE). III. Constraining the quenching time in the stripped galaxy NGC 4330.*
32. Lusso, E., **Fumagalli, M.**, Rafelski, M. et al. 2018, ApJ, 860, 41. *The spectral and environment properties of $z \sim 2.0 - 2.5$ quasar pairs.*
33. Findlay, J.R. et al. 2018, ApJS, 236, 44. *Quasars probing quasars X: The quasar pair spectral database.*
34. Messa, M. et al. 2018, MNRAS, 477, 1683. *The Young Star Cluster population of M51 with LEGUS: II. Testing environmental dependencies.*
35. Kahre, L. et al. 2018, ApJ, 855, 133. *Extinction Maps and Dust-to-Gas Ratios in Nearby Galaxies.*
36. Gavazzi, G., Consolandi, G., Pedraglio, S., Fossati, M., **Fumagalli, M.**, Boselli, A. 2018, A&A, 611, 28. *H α imaging observations of early-type galaxies from the ATLAS3D survey.*
37. Hunter, D. et al. 2018, ApJ, 855, 7. *A study of two dwarf irregular galaxies with asymmetrical star formation distributions.*
38. Sabbi, E. et al. 2018, ApJS, 235, 23. *The resolved stellar populations in the LEGUS galaxies.*
39. Messa, M. et al. 2018, MNRAS, 473, 996. *The Young Star Cluster population of M51 with LEGUS: I. A comprehensive study of cluster formation and evolution.*
40. Consolandi, G., Gavazzi, G., Fossati, M., **Fumagalli, M.**, Boselli, A., Yagi, M., Yoshida, M. et al. 2017, A&A, 606, 83. *MUSE sneaks a peek at extreme ram-pressure events - III. Tomography of UGC 6697, a massive galaxy falling into Abell 1367.*
41. **Fumagalli, M.**, Mackenzie, R., Trayford, J. et al. 2017, MNRAS, 471, 3686. *Witnessing galaxy assembly in an extended $z \approx 3$ structure.*
42. Grasha, K. et al. 2017, ApJ, 842, 25. *Hierarchical Star Formation in Turbulent Media: Evidence from Young Star Clusters.*
43. Ashworth, G., **Fumagalli, M.**, Krumholz, M.R. et al. 2017, MNRAS, 469, 2464. *Exploring the IMF of star clusters: a joint SLUG and LEGUS effort.*
44. Ryon, J.E. et al. 2017, ApJ, 841, 92. *Effective Radii of Young, Massive Star Clusters in Two LEGUS Galaxies.*
45. Adamo, A. et al. 2017, ApJ, 841, 131. *Legacy ExtraGalactic UV Survey with The Hubble Space Telescope. Stellar cluster catalogues and first insights into cluster formation and evolution in NGC 628.*
46. Grasha, K. et al. 2017, ApJ, 840, 113. *The Hierarchical Distribution of the Young Stellar Clusters in Six Local Star Forming Galaxies.*
47. Bielby, R., Crighton, N.H.M., **Fumagalli, M.** et al. 2017, MNRAS, 468, 1373. *Probing the intra-group medium of a $z = 0.28$ galaxy group.*
48. Swinbank, M. et al. 2017, MNRAS, 467, 3140. *Angular momentum evolution of galaxies over the past 10 Gyr: A MUSE and KMOS dynamical survey of 400 star-forming galaxies from $z = 0.3 - 1.7$.*
49. **Fumagalli, M.**, Haardt, F., Theuns, T., Morris, S.L., Cantalupo, S., Madau, P., Fossati, M. 2017, MNRAS, 467, 4802. *A measurement of the $z = 0$ UV background from H α fluorescence.*

50. Prochaska et al. 2017, ApJ, 837, 169. *The COS-Halos Survey: Metallicities in the Low-Redshift Circumgalactic Medium.*
51. Lehner, N., O'Meara, J.M., Howk, J.C., Prochaska, J.X., **Fumagalli, M.** 2016, ApJ, 833, 283. *The Cosmic Evolution of the Metallicity Distribution of Ionized Gas Traced by Lyman Limit Systems.*
52. Toy, V.L. et al. 2016, ApJ, 832, 175. *Exploring Damped Lyman- α System Host Galaxies using Gamma-ray Bursts.*
53. **Fumagalli, M.**, Cantalupo, S., Dekel, A., Morris, S.L., O'Meara, J.M, Prochaska, J.X., Theuns, T. 2016, MNRAS, 462, 1978. *MUSE searches for galaxies near very metal-poor gas clouds at $z \sim 3$: new constraints for cold accretion models.*
54. Rafelski, M., Gardner, J.P., **Fumagalli, M.** et al. 2016, ApJ, 825, 87. *The Star Formation Rate Efficiency of Neutral Atomic-dominated Hydrogen Gas in the Outskirts of Star Forming Galaxies from $z \sim 1$ to $z \sim 3$.*
55. Consolandi, G., Gavazzi, G., **Fumagalli, M.** et al. 2016, A&A, 591, 38. *Robust automatic photometry of local galaxies from SDSS. Dissecting the color magnitude relation with color profiles.*
56. Finn, C. et al. 2016, MNRAS, 460, 590. *On the connection between the metal-enriched intergalactic medium and galaxies: an OVI-galaxy cross-correlation study at $z < 1$.*
57. Archambault, S. et al. 2016, AJ, 151, 142. *Upper limits from five years of blazar observations with the VERITAS Cherenkov telescopes.*
58. Boselli, A. et al. 2016, A&A, 587, 68. *Spectacular tails of ionised gas in the Virgo cluster galaxy NGC 4569*
59. Grasha, K. et al. 2015, ApJ, 815, 93. *The Spatial Distribution of the Young Stellar Clusters in the Star Forming Galaxy NGC 628.*
60. **Fumagalli, M.**, O'Meara, J.M., Prochaska, J.X. 2016, MNRAS, 455, 4100. *The physical properties of $z > 2$ Lyman limit systems: new constraints for feedback and accretion models.*
61. Fossati, M., **Fumagalli, M.**, Boselli, A. et al. 2016, MNRAS, 455, 2028. *MUSE sneaks a peek at extreme ram-pressure stripping events. II. The physical properties of the gas tail of ESO137-001.*
62. Farina, E., **Fumagalli, M.**, Decarli, R. et al. 2016, MNRAS, 455, 618. *The Cluster-Scale Environment of PKS 2155-304.*
63. Krumholz, M. R., Adamo, A., **Fumagalli, M.**, et al. 2015, ApJ, 812, 147. *Star Cluster Properties in Two LEGUS Galaxies Computed with Stochastic Stellar Population Synthesis Models.*
64. Calzetti, D. et al. 2015, ApJ, 811, 75. *The Brightest Young Star Clusters in NGC 5253.*
65. Prochaska, J.X. et al. 2015, ApJS, 221, 2. *The Keck+Magellan Survey for Lyman Limit Absorption III: Sample Definition and Column Density Measurements.*
66. Crighton, N. et al. 2015, MNRAS, 452, 217. *The Neutral Hydrogen Cosmological Mass Density at $z = 5$.*
67. Krumholz, M., **Fumagalli, M.**, da Silva, R., Rendahl, T., Parra, J. 2015, MNRAS, 452, 1447. *SLUG – Stochastically Lighting Up Galaxies. III: A Suite of Tools for Simulated Photometry, Spectroscopy, and Bayesian Inference with Stochastic Stellar Populations.*

68. Gavazzi, G. et al. 2015, A&A, 580, 116. *Halp3: an Halp3 imaging survey of HI selected galaxies from ALFALFA . VI. The role of bars in quenching star formation from $z = 3$ to the present epoch.*
69. Carnall, A. C. et al. 2015, MNRAS, 451, 16. *Two bright $z > 6$ quasars from VST ATLAS and a new method of optical plus mid-infra-red colour selection.*
70. Cucchiara, A., **Fumagalli, M.**, Rafelski, M., Kocevski, D., Prochaska, J.X., Cooke, R.J., Becker, G.D. 2015, ApJ, 804, 51. *Unveiling the Secrets of Metallicity and Massive Star Formation Using DLAs along Gamma-ray Bursts.*
71. Gavazzi, G. et al. 2015, A&A, 576, 16. *Halp3: an Halp3 imaging survey of HI selected galaxies from ALFALFA . V. The Coma supercluster survey completion.*
72. Calzetti, D. et al. 2015, AJ, 149, 51. *Legacy ExtraGalactic UV Survey (LEGUS) with The Hubble Space Telescope. I. Survey Description.*
73. **Fumagalli, M.**, O'Meara, J.M., Prochaska, J.X., Rafelski, M., Kanekar, N. 2015, MNRAS, 446, 3178. *Directly imaging damped Ly α galaxies at $z > 2$. III: The star formation rates of neutral gas reservoirs at $z \sim 2.7$.*
74. Crighton, N. et al. 2015, MNRAS, 446, 18. *Metal-enriched, sub-kiloparsec gas clumps in the circumgalactic medium of a faint $z = 2.5$ galaxy.*
75. **Fumagalli, M.**, Fossati, M., Hau, G. et al. 2014, MNRAS, 445, 4335. *MUSE sneaks a peek at extreme ram-pressure stripping events. I. A kinematic study of the archetypal galaxy ESO137-001.*
76. Aliu, E. et al. 2014, ApJ, 797, 89. *Investigating Broadband Variability of the TeV Blazar 1ES 1959+650.*
77. Boselli, A. et al. 2014, A&A, 570, 69. *The GALEX Ultraviolet Virgo Cluster Survey (GUViCS). IV: The role of the cluster environment on galaxy evolution*
78. Worseck, G. et al. 2014, MNRAS, 445, 1745. *The Giant Gemini GMOS survey of $z > 4.4$ quasars. I: Measuring the mean free path across cosmic time.*
79. da Silva, R.L., **Fumagalli, M.**, Krumholz, M. 2014, MNRAS, 444, 3275. *SLUG - Stochastically Lighting Up Galaxies. II: Quantifying the Effects of Stochasticity on Star Formation Rate Indicators.*
80. **Fumagalli, M.**, O'Meara, J.M., Prochaska, J.X., Kanekar, N., Wolfe, A. 2014, MNRAS, 444, 1282. *Directly imaging damped Ly α galaxies at $z > 2$. II: Imaging and spectroscopic observations of 32 quasar fields.*
81. Lusso, E. et al. 2014, MNRAS, 441, 316. *The nature of massive black hole binary candidates: II. Spectral energy distribution atlas.*
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