

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*.
- 2020- **Associate**, *INAF - Osservatorio Astronomico di Trieste*.
- 2020- **Visiting Professor**, *Durham University*.
- 2018-2020 **Professor**, *Durham University*.
- 2017-2018 **Associate Professor (Reader)**, *Durham University*.
- 2014-2017 **Assistant Professor (Lecturer)**, *Durham University*.
- 2013-2014 **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 (principal investigator or primary co-investigator)

- 2022 **Dipartimenti di Eccellenza 2023-2027**, MUR, (Deputy PI).
- 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

- Apr., 2023 **The Department of Astronomy Colloquium Series**, *Tsinghua University*, Invited.
The gas environment of galaxies across 10 billion years
- Mar., 2023 **The Circum-Galactic Medium across cosmic time: an observational and modeling challenge**, *The 52nd "Saas-Fee Advanced Course"*, Invited lecturer.
The multiphase CGM in absorption and emission
- Feb., 2023 **The Multiphase Circumgalactic Medium**, *Ringberg Castle, Germany*, Invited.
The gas environment of galaxies across 10 billion years
- Nov., 2022 **IoA colloquium**, *Cambridge, UK*, invited.
The gas environment of galaxies across 10 billion years
- Sep., 2022 **What Matter(s) Around Galaxies 2022**, *Italy*, SOC chair and lead organizer.
Connecting the dots between the CGM and the larger-scale environment
- Jun., 2021 **KIAA Forum on Gas in Galaxies for Early Career Scientists**, *Kavli Institute for Astronomy and Astrophysics*, invited.
Flows around galaxies: advancements, challenges and opportunities
- May., 2021 **Multi-object Spectroscopy for Statistical Measures of Galaxy Evolution Workshop**, *Space Telescope Science Institute*, invited review.
Studying gas flows around galaxies with multi object spectroscopy
- May., 2021 **Extragalactic Seminar Series**, *University of Victoria*, invited.
Shedding light on gas around galaxies across cosmic times

- Apr., 2021 **Astronomy Colloquium**, *University of California, Santa Cruz*, invited.
Shedding light on gas around galaxies across cosmic times
- Mar., 2021 **Physics Colloquium**, *North Carolina State University*, invited.
Shedding light on gas around galaxies across cosmic times
- Nov., 2020 **Kapteyn Institute Colloquium**, *University of Groningen*, invited.
Shedding light on gas around galaxies across cosmic times
- Jun., 2020 **EAS 2020**, *Leiden*, invited review.
Flows around galaxies in 2020: advancements, challenges and opportunities
- Jun., 2020 **Insights into the CGM and ICM**, *IAP, France*, invited.
MUSE observations of the CGM of distant galaxies
- Apr., 2020 **Astronomy Colloquium**, *Royal Observatory/Edinburgh*, invited.
Shedding light on gas around galaxies across cosmic times
- Mar., 2020 **Astronomy Colloquium**, *INAF/Arcetri*, invited.
Shedding light on gas around galaxies across cosmic times
- 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)

- 2022 ALMA; 9 hours, cycle 9.
- 2022 ESO/VLT; 16 hours, P109.
- 2021 ALMA; 9 hours, cycle 8.
- 2019 ESO/VLT; 25 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

- 2021- Medical Physics; School of Medicine, University of Milano-Bicocca.
 - 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. Georg Herzog (2020-), University of Milano-Bicocca.
 - Mr. Calvin Sykes (2017-2021), Durham University (PhD, 2021).
 - Ms. Louise Welsh (2017-2021), Durham University (PhD, 2021).
 - Mr. Ruari Mackenzie (2014-2018), Durham University (PhD, 2018).
 - Mr. Greg Ashworth (2014-2018), Durham University (PhD, 2018).
- PDRAs
- Dr. Trystyn Berg (2021-), University of Milano-Bicocca.
 - Dr. Louise Welsh (2021-), University of Milano-Bicocca.
 - Dr. Alessia Longobardi (2021-2023), University of Milano-Bicocca.
 - Dr. Emma Lofthouse (2018-2023), Durham University, University of Milano-Bicocca.
 - Dr. Rajeshwari Dutta (2019-2022), Durham University, University of Milano-Bicocca.
 - Dr. Alejandro Benitez Llambay (2021-2022), University of Milano-Bicocca.
 - Dr. Matteo Fossati (2018-2021), Durham University, University of Milano-Bicocca.
 - Dr. Elisabeta Lusso (2017-2019), Junior Research Fellow, Durham University.
 - Dr. Richard Bielby (2017-2019), Durham University.

Membership and Activities

- 2023- Co-lead of the outreach project “Un nuovo sguardo sul cielo di Milano” funded by NextGenerationEU
- 2023- Steering Committee, Bicocca Centre for Quantitative Cosmology, Dipartimenti di Eccellenza 2023
- 2022- Member of the International Astronomical Union
- 2021- Member of the Euclid Consortium
- 2021- Member of the MOSAIC/ELT Science working groups “First Light” and “Inventory of matter”
- 2021- Member of the Science Working Group, WEAVE survey
- 2020- Coordinator of Absorption Line Studies in the Quasar Working Group, WEAVE survey
- 2020 Chair of PhD Admission Committee, Physics Department, University of Milano-Bicocca
- 2020 Panel Member, USA National Science Foundation
- 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- HIRES/ELT 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. Saccardi, A., Salvadori, S., D’Odorico, V. et al. 2023, ApJ, 948, 35, *Evidence of First Stars-enriched Gas in High-redshift Absorbers*.
2. Beckett, A., Morris, S.L., **Fumagalli, M.** et al. 2023, MNRAS, 521, 1113. *Modelling gas around galaxy pairs and groups using the Q0107 quasar triplet*.
3. Dutta, R., Fossati, M., **Fumagalli, M.** et al. 2023, MNRAS, 508, 4573 submitted (arXiv:2302.09087). *Metal line emission from galaxy haloes at $z \approx 1$* .
4. Revalski, M., Rafelski, M., **Fumagalli, M.**, Fossati, M. et al. 2023, ApJS, 265, 40. *The MUSE Ultra Deep Field (MUDF) – III: Hubble Space Telescope WFC3 Grism Spectroscopy and Imaging*.
5. Galbiati, M., **Fumagalli, M.**, Fossati, M. et al. 2023, MNRAS submitted (arXiv:2302.00021). *MUSE Analysis of Gas around Galaxies (MAGG) – V: Linking ionized gas traced by CIV and SiIV absorbers to Ly α emitting galaxies at $z \approx 3.0 - 4.5$* .
6. Cook, D.O., et al. 2023, MNRAS, 519, 3749. *Fraction of Stars in Clusters for the LEGUS Dwarf Galaxies*.

7. Jin, S., et al. 2023, MNRAS in press (arXiv:2212.03981). *The wide-field, multiplexed, spectroscopic facility WEAVE: Survey design, overview, and simulated implementation.*
8. Luo, R., et al. 2023, MNRAS in press (arXiv:2212.03891). *Tracing the kinematics of the whole ram pressure stripped tails in ESO 137-001.*
9. Lofthouse, E., **Fumagalli, M.**, Fossati, M. et al. 2023, MNRAS, 518, 305. *MUSE Analysis of Gas around Galaxies (MAGG) – IV: The gaseous environment of $z \approx 3 - 4$ Ly α emitting galaxies.*
10. Herzog, G., Benitez-Llambay, A. **Fumagalli, M.** 2023, MNRAS, 518, 6305. *The present-day gas content of simulated field dwarf galaxies.*
11. Boselli, A. et al. 2023, A&A 669, 73. *A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE).XIV. The main sequence relation in a rich environment down to $M_{star} \approx 10^6 M_{\odot}$.*
12. Siressi, M. et al. 2022, AJ, 164, 208. *CLusters in the UV as EngineS (CLUES). I. Survey Presentation and FUV Spectral Analysis of the Stellar Light.*
13. Beckett, A., Morris, S.L., **Fumagalli, M.** et al. 2022, MNRAS 517, 1020. *Signatures of extended discs and outflows in the circumgalactic medium using the Q0107 quasar triplet.*
14. Mintz, A., Rafelski, M., Jorgenson, R.A., **Fumagalli, M.** 2022, AJ, 164, 51. *Constraining the Size of the Circumgalactic Medium Using the Transverse Autocorrelation Function of C IV Absorbers in Paired Quasar Spectra.*
15. Robert, P.F., Murphy, M.T., O’Meara, J.M, Crighton, N.H.M, **Fumagalli, M.** 2022, MNRAS, 514, 3559. *Discovery of three new near-pristine absorption clouds at $z = 2.6 - 4.4$.*
16. Dalton, T., Morris, S.L., **Fumagalli, M.**, Gattuzz, E. 2022, MNRAS, 513, 822. *Probing the physical properties of the intergalactic medium using quasars.*
17. Welsh, L., Cooke, R.,**Fumagalli, M.**, Pettini, M.. 2022, ApJ, 929, 158. *Oxygen-enhanced extremely metal-poor DLAs: A signpost of the first stars?*
18. Lehner, N. et al. 2022, ApJ, 936, 156. *KODIAQ-Z: Metals and Baryons in the Cool Intergalactic and Circumgalactic Gas at $2.2 < z < 3.6$.*
19. Arrigoni Battaia, F. et al. 2022, ApJ, 930, 72. *A Multiwavelength Study of ELAN Environments (AMUSE²): Mass budget, satellites spin alignment and gas infall in a massive $z \sim 3$ quasar host halo.*
20. Pedrini, A. et al. 2022, MNRAS, 511, 5180. *MUSE sneaks a peek at extreme ram-pressure stripping events – V. Towards a complete view of the galaxy cluster A1367*
21. Nowotka, M. et al. 2022, A&A, 658, 77. *A Multiwavelength Study of ELAN Environments (AMUSE²): Ubiquitous dusty star-forming galaxies associated with enormous Ly α nebulae on megaparsec scales.*
22. Orozco-Duarte, R. et al. 2022, MNRAS, 509, 522. *Synthetic photometry of OB star clusters with stochastically sampled IMFs: analysis of models and HST observations.*
23. Benitez-Llambay, A., **Fumagalli, M.** 2021, ApJL, 921, 9. *The Tail of Late-Forming Dwarf Galaxies in Λ CDM.*
24. Dutta, R., **Fumagalli, M.**, Fossati, M. et al. 2021, MNRAS, 508, 4573. *Metal-enriched halo gas across galaxy overdensities over the last 10 billion years.*
25. Dalton, T., Morris, S.L., **Fumagalli, M.**, Gattuzz, E. 2021, MNRAS, 508, 1701. *Probing the physical properties of the intergalactic medium using blazars.*

26. Menon, S.H. et al. 2021, MNRAS, 507, 5542. *The Dependence of the Hierarchical Distribution of Star Clusters on Galactic Environment.*
27. Beckett, A., Morris, S.L., **Fumagalli, M.** et al. 2021, MNRAS, 506, 2574. *The relationship between gas and galaxies at $z < 1$ using the Q0107 quasar triplet.*
28. Della Bruna, L. et al., 2021, A&A, 650, 103. *Studying the ISM at ~ 10 pc scale in NGC 7793 with MUSE – II. Constraints on the oxygen abundance and ionising radiation escape.*
29. Fossati, M., **Fumagalli, M.**, Lofthouse, E.K. et al. 2021, MNRAS, 503, 3044. *MUSE Analysis of Gas around Galaxies (MAGG) - III: The gas and galaxy environment of $z = 3 - 4.5$ quasars.*
30. Dalton, T., Morris, S.L., **Fumagalli, M.** 2021, MNRAS, 502, 5981. *Probing the physical properties of the intergalactic medium using gamma-ray bursts.*
31. Berg, T.A.M, **Fumagalli, M.**, D’Odorico, V. et al. 2021, MNRAS, 502, 4009. *Sub-damped Lyman alpha systems in the XQ-100 survey II – Chemical evolution at $2.4 < z < 4.3$.*
32. Joshi, R., **Fumagalli, M.**, Srianand, R. et al. 2021, ApJ, 908, 129. *Discovery of a damped Ly α galaxy at $z \sim 3$ towards the quasar SDSS J011852+040644.*
33. Welsh, L., Cooke, R., **Fumagalli, M.** 2021, MNRAS, 500, 5214. *The stochastic enrichment of Population II stars.*
34. Dutta, R., **Fumagalli, M.**, Fossati, M. et al. 2020, MNRAS, 499, 5022. *MUSE Analysis of Gas around Galaxies (MAGG) - II: Metal-enriched halo gas around $z \sim 1$ galaxies.*
35. Decataldo, D., Lupi, A., Ferrara, A., Pallottini, A. **Fumagalli, M.** 2020, MNRAS, 497, 4718. *Shaping the structure of a GMC with radiation and winds.*
36. **Fumagalli, M.**, Fotopoulou, S., Thomson, L. 2020, MNRAS, 498, 1951. *Detecting neutral hydrogen at $z > 3$ in large spectroscopic surveys of quasars.*
37. Stott, J.P. et al. 2020, MNRAS, 497, 3083. *Quasar Sightline and Galaxy Evolution (QSAGE) survey – II. Galaxy overdensities around UV luminous quasars at $z = 1 - 2$.*
38. Bielby, R., **Fumagalli, M.**, Fossati, M. et al. 2020, MNRAS, 493, 5336. *Into the Ly α jungle: exploring the circumgalactic medium of galaxies at $z \sim 4 - 5$ with MUSE.*
39. Cooke, R., Welsh, L., **Fumagalli, M.**, Pettini, M. 2020, MNRAS, 494, 4884. *A limit on Planck-scale froth with ESPRESSO.*
40. Welsh, L., Cooke, R., **Fumagalli, M.**, Pettini, M. 2020, MNRAS, 494, 1411. *A bound on the $^{12}\text{C}/^{13}\text{C}$ ratio in near-pristine gas with ESPRESSO.*
41. Della Bruna, L., Adamo, A., Bik A., **Fumagalli M.** et al. 2020, A&A, 635, 134. *Studying the ISM at 10 pc scale in NGC 7793 with MUSE – I. Data description and properties of the ionised gas.*
41. Buie, E., **Fumagalli, M.**, Scannapieco, E. 2020, 890, 33. *Interpreting Observations of Absorption Lines in the Circumgalactic Medium with a Turbulent Medium.*
42. Lofthouse, E.K., **Fumagalli, M.**, Fossati, M. et al. 2020, MNRAS, 491, 2057. *MUSE Analysis of Gas around Galaxies (MAGG) – I: Survey design and the environment of a near pristine gas cloud at $z \sim 3.5$.*
43. Sykes, C., **Fumagalli, M.**, Cooke, R., Theuns, T. 2020, MNRAS, 492, 2151. *Determining the primordial helium abundance and UV background using fluorescent emission in star-free dark matter haloes.*

44. 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 $0.5 < z < 1.5$.*
45. 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.*
46. Becker, G.D. et al. 2019, ApJ, 883, 163. *The Evolution of OI over $3.2 < z < 6.5$: Reionization of the Circumgalactic Medium.*
47. 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.*
48. **Fumagalli, M.** 2019, Nature Astronomy, 3, 796. *Thirsty galaxies thriving on gas streams.*
49. Sykes, C., **Fumagalli, M.**, Cooke, R., Theuns, T., Benitez-Llambay, A. 2019, MNRAS, 487, 609. *Fluorescent rings in star-free dark matter haloes.*
50. 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 $z \sim 3$.*
51. 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.*
52. 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.*
53. 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.*
54. 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.*
55. Cook, D.O. et al. 2019, MNRAS, 484, 4897. *Star Cluster Catalogs for the LEGUS Dwarf Galaxies.*
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