PUBLICATIONS

First author

- > Gazagnes S., Mauerhofer, V., Berg, D. A., Blaizot, J., Verhamme, A., Garel, T.; Erb, D. K., and the CLASSY Collaboration 2023 Interpreting the Si II and C II line spectra from the COS Legacy Spectroscopic SurveY using a virtual galaxy from a high-resolution radiation-hydrodynamic simulation *The Astrophysical Journal*.
- > Gazagnes S., Kalantar-Nayestanaki, N., Messchendorp, J. G., Regina, J., Stockmanns, T., Wilkinson, M. H. F. on behalf of the Panda Collaboration 2023 Reconstructing charged-particle trajectories in the PANDA Straw Tube Tracker using the LOcal Track Finder (LOTF) algorithm *The European Physical Journal A*.
- > Gazagnes S. and Wilkinson M. H. F. 2022 Parallel Attribute Computation for Distributed Component Forests *IEEE International Conference on Image Processing (ICIP)*.
- > Gazagnes S., Koopmans L. V. E, and Wilkinson M. H. F. 2021 Inferring the astrophysics of reionization using the morphological spectra of the ionized regions MNRAS, 502.
- > Gazagnes S. and Wilkinson M. H. F. 2021 Distributed Connected Component Analysis and Filtering *IEEE Transactions on Image Processing*, 30.
- **> Gazagnes S.**, Chisholm J., Schaerer D., Verhamme A., and Izotov Y. 2020 The origin of the escape of Lyman α and ionizing photons in Lyman continuum emitters A&A, 639, A85.
- > Gazagnes S. and Wilkinson M. H. F. 2019 Distributed component forests in 2D: hierarchical image representations for tera-scale images *Int. Jour. of Pattern Recognition and Artificial Intelligence*, 33(11).
- > Gazagnes S., Chisholm J., Schaerer D., and 3 others 2018 Neutral gas properties of Lyman continuum emitting galaxies: Column densities and covering fractions from UV absorption lines *A&A*, 616, A29.
- > Gazagnes S., Soubies E., & Blanc-Féraud L. 2017 High density molecule localization for super-resolution microscopy using CEL0 based sparse approximation. *Conference proceedings of the 14th IEEE Int. Symposium on Biomedical Imaging*.

Co-authored

- > Saldana-Lopez A., Schaerer D., and 25 others, including **Gazagnes S.** 2022 The Low-Redshift Lyman Continuum Survey: unveiling the ISM properties of low-z Lyman continuum emitters *A&A*.
- > Chisholm J., Prochaska X., Schaerer D., **Gazagnes S.**, Henry A. 2020 Optically thin spatially resolved Mg II emission maps the escape of ionizing photons *MNRAS*, 498.
- > Ghara R., Giri S.K., Mellema G., and 19 others, including **Gazagnes S.** -2020 Constraining the intergalactic medium at $z \approx 9.1$ using LOFAR Epoch of Reionization observations *MNRAS*, 493(4).
- > Mertens F. G., Mevius M., Koopmans L. V. E., and 23 others, including **Gazagnes S.** 2020 Improved upper limits on the 21 cm signal power spectrum of neutral hydrogen at $z \approx 9.1$ from LOFAR *MNRAS*, 493(2).
- > Chisholm J., **Gazagnes S.**, Schaerer D., and 6 others 2018 Accurately predicting the escape fraction of ionizing photons using rest-frame ultraviolet absorption lines *A&A*, 616, A30.

TALKS

- > Conference talk Interpreting UV spectra with RHD simulations UV galaxies, Reykjavik (Iceland) July 2023.
- > Invited talk Interpreting UV spectra with RHD simulations Fake Light workshop, Flatiron Institute, New York (USA) June 2023.
- > Invited talk Interpreting UV spectra with RHD simulations The James Webb Space Telescope turns one: the birth and growth of galaxies, Sesto (Italy) March 2023.
- > Recorded talk Parallel Attribute Computation for Distributed Component Forests IEEE International Conference on Image Processing (ICIP), Bordeaux (France) October 2022.
- > Seminar Interpreting UV spectra with RHD simulations Galaxy seminar, CRAL, Lyon (France) July 2022.
- > Invited talk Lyman- α properties in CLASSY Galaxy Evolution Workshop (online) Jan 13th 2022

- > Seminar Exploring the Properties of the Reionization Sources With Low-z LCEs and High-z 21-cm Tomography – Galaxy and cosmology seminar, UT Austin (USA) – Nov 1st 2021.
- > Colloquium Vast and Fast Data in the era of large astrophysics and particle physics experiments University of Groningen (The Netherlands) Sep 23rd, 2021.
- > Seminar Distributed Connected Component Analysis and Filtering for Tera-Scale data sets Bernouilli Institute (The Netherlands) May 28th, 2021.
- > Contributed talk Inferring the properties of the sources of reionization using the morphology of the ionized regions SAZERAC 21-cm sip (online) Jan 29rd 2021
- > Seminar Exploring the properties of the reionization sources with spectroscopic and 21-cm observations CGI seminar at UC Santa Cruz (Stanford, USA) Nov 23rd 2020.
- > Seminar Inferring the properties of the sources of reionization using the morphology of the ionized regions SKA EoR/CD SWG seminar (online) on Nov 12th 2020.
- > Coffee talk The origin of the escape of ionizing photons Flatiron Institute (New York, USA) on October 23rd, 2020.
- > Colloquium The origin of the escape of Lyman α and ionizing photons Kapteyn Astronomical Institute (Groningen, The Netherlands) on July 20th, 2020.
- > Contributed talk The origin of the escape of Ly α and ionizing photons Conference EAS 2020, July 2020.
- > Seminar talk Bayesian inference with 21-cm tomography LOFAR EoR meeting, June 2020.
- > Coffee talk The origin of the escape of Lyman α and ionizing photons Ohio State University Astro Coffee (Ohio, USA) on May 19th, 2020.
- > Contributed talk The morphology of the 21-cm brightness temperature during the EoR Conference EWASS 2019, June 2019.
- > Poster presentation The escape of ionizing photons in low redshift Lyman continuum emitters Conference EWASS 2019, June 2019.
- > Seminar talk The morphology of the 21-cm brightness temperature during the EoR LOFAR EoR plenary meeting on May 9th, 2019.
- > Poster presentation The evolution of the ionized gas during the early universe using DCFs DSSC Science meeting on April 25th, 2019.
- > Poster presentation Neutral gas properties of Lyman continuum emitters Conference Escape of Lyman radiation from galactic labyrinths, September 2018.
- > Poster presentation Neutral gas properties of Lyman continuum emitters Conference Rise and Shine, June 2018.