

# Frontier Fields Publications



Lotz et al. 2017, *ApJ*, 837, 97 - [2017ApJ...837...97L](#)  
"The Frontier Fields: Survey Design and Initial Results"

[STScI Newsletter article](#)

[HDFI SWG Report 2102](#)

Bergamini et al. 2023, *A&A*, 670, A60 - [2023A&A...670A..60B](#)  
"New high-precision strong lensing modeling of Abell 2744. Preparing for JWST observations"

Meena et al. 2023, *MNRAS*, 521, 5224 - [2023MNRAS.521.5224M](#)  
"Flashlights: an off-caustic lensed star at redshift  $z = 1.26$  in Abell 370"

Tortorelli et al. 2023, *A&A*, 671, L9 - [2023A&A...671L...9T](#)  
"The Kormendy relation of early-type galaxies as a function of wavelength in Abell S1063, MACS J0416.1-2403, and MACS J1149.5+2223"

Bolan et al. 2022, *MNRAS*, 517, 3263 - [2022MNRAS.517.3263B](#)  
"Inferring the intergalactic medium neutral fraction at  $z \sim 6$ -8 with low-luminosity Lyman break galaxies"

Kokorev et al. 2022, *ApJS*, 263, 38 - [2022ApJS...263...38K](#)  
"ALMA Lensing Cluster Survey: Hubble Space Telescope and Spitzer Photometry of 33 Lensed Fields Built with CHARGE"

Griffiths et al. 2022, *ApJ*, 941, 181 - [2022ApJ...941..181G](#)  
"Emission Line Galaxies in the SHARDS Hubble Frontier Fields. II. Limits on Lyman-continuum Escape Fractions of Lensed Emission Line Galaxies at Redshifts  $2 < z < 3.5$ "

Santini et al. 2022, *ApJ*, 940, 135 - [2022ApJ...940..135S](#)  
"The Stellar Mass Function in CANDELS and Frontier Fields: The Buildup of Low-mass Passive Galaxies since  $z \sim 3$ "

Chen et al. 2022, *Natur*, 611, 256 - [2022Natur.611..256C](#)  
"Shock cooling of a red-supergiant supernova at redshift 3 in lensed images"

Meštri et al. 2022, *MNRAS*, 516, 3532 - [2022MNRAS.516.3532M](#)  
"Exploring the physical properties of lensed star-forming clumps at  $2 < z < 6$ "

Bouwens et al. 2022, *ApJ*, 940, 55 - [2022ApJ...940...55B](#)  
" $z \sim 2$ -9 Galaxies Magnified by the Hubble Frontier Field Clusters. II. Luminosity Functions and Constraints on a Faint-end Turnover"

Lee et al. 2022, *ApJ*, 940, 24 - [2022ApJ...940...24L](#)  
"A GMOS/IFU Study of Jellyfish Galaxies in Massive Clusters"

Cowie et al. 2022, *ApJ*, 939, 5 - [2022ApJ...939....5C](#)  
"A Submillimeter Survey of Faint Galaxies behind 10 Strong Lensing Clusters"

Fabritius and Goldberg 2022, *MNRAS*, 515, 6191 - [2022MNRAS.515.6191F](#)  
"A new estimate of galaxy mass-to-light ratios from flexion lensing statistics"

Claeysens et al. 2022, *A&A*, 666, A78 - [2022A&A...666A..78C](#)  
"The Lensed Lyman-Alpha MUSE Arcs Sample (LLAMAS). I. Characterisation of extended Lyman-alpha halos and spatial offsets"

Chu et al. 2022, *A&A*, 666, A54 - [2022A&A...666A..54C](#)  
"Physical properties of more than one thousand brightest cluster galaxies detected in the Canada-France-Hawaii Telescope Legacy Survey"

Bellhouse et al. 2022, *ApJ*, 937, 18 - [2022ApJ...937...18B](#)  
"Locations and Morphologies of Jellyfish Galaxies in A2744 and A370"

Limousin, Beauchesne, and Jullo 2022, *A&A*, 664, A90 - [2022A&A...664A..90L](#)  
"Dark matter in galaxy clusters: Parametric strong-lensing approach"

Sabti, Muñoz, and Blas 2022, *ApJL*, 928, L20 - [2022ApJ...928L..20S](#)  
"New Roads to the Small-scale Universe: Measurements of the Clustering of Matter with the High-redshift UV Galaxy Luminosity Function"

Yang et al. 2022, *MNRAS*, 514, 1148 - [2022MNRAS.514.1148Y](#)  
"The size-luminosity relation of lensed galaxies at  $z \sim 6$ -9 in the Hubble Frontier Fields"

Lagattuta et al. 2022, MNRAS, 514, 497 - [2022MNRAS.514..497L](#)  
 "Pilot-WINGS: An extended MUSE view of the structure of Abell 370"

Tan et al. 2022, ApJ, 933, 30 - [2022ApJ...933...30T](#)  
 "Resolved Stellar Mass Maps of Galaxies in the Hubble Frontier Fields: Evidence for Mass Dependency in Environmental Quenching"

Concas et al. 2022, MNRAS, 513, 2535 - [2022MNRAS.513.2535C](#)  
 "Being KLEVER at cosmic noon: Ionized gas outflows are inconspicuous in low-mass star-forming galaxies but prominent in massive AGN hosts"

Sun et al. 2022, ApJ, 932, 77 - [2022ApJ...932...77S](#)  
 "ALMA Lensing Cluster Survey: ALMA-Herschel Joint Study of Lensed Dusty Star-forming Galaxies across  $z = 0.5 - 6$ "

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 "The Galaxy Starburst/Main-sequence Bimodality over Five Decades in Stellar Mass at  $z = 3-6.5$ "

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 "Post-starburst Galaxies in the Centers of Intermediate-redshift Clusters"

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 "PetroFit: A Python Package for Computing Petrosian Radii and Fitting Galaxy Light Profiles"

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 "Sizes of Lensed Lower-luminosity  $z = 4-8$  Galaxies from the Hubble Frontier Field Program"

Granata et al. 2022, A&A, 659, A24 - [2022A&A...659A..24G](#)  
 "Improved strong lensing modelling of galaxy clusters using the Fundamental Plane: Detailed mapping of the baryonic and dark matter mass distribution of Abell S1063"

Sabti, Muñoz, and Blas 2022, PhRvD, 105, 043518 - [2022PhRvD.105d3518S](#)  
 "Galaxy luminosity function pipeline for cosmology and astrophysics"

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 "A new framework for understanding systematic errors in cluster lens modelling - II. Constraint selection"

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 "A new framework for understanding systematic errors in cluster lens modelling - I. Selection and treatment of cluster member galaxies"

Griffiths et al. 2021, MNRAS, 508, 3860 - [2021MNRAS.508.3860G](#)  
 "Emission line galaxies in the SHARDS Frontier Fields - I. Candidate selection and the discovery of bursty H emitters"

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