CV

I. EMPLOYMENT

- Apr. 2019 Aug. 2019: Post-doc. Researcher at the University of Geneva (UniGE)
 The Swiss National Science Foundation, SNSF
- Sep. 2019 Aug. 2020: Post-doc. Researcher at UniGE
 The Swiss Government Excellence Scholarship for a postdoc
- Sep. 2020 Mar. 2021: Post-doc. Researcher at UniGE (SNSF)
- Apr. 2022 Jun. 2023: Post-doc. Researcher at UniGE (JSPS Overseas Research Fellow)
- maternity leave
- Dec. 2022 Mar. 2023: Post-doc. Researcher at UniGE (JSPS Overseas Research Fellow)
- Apr. 2023 Mar. 2025: Post-doc. Researcher at NAOJ (JSPS fellow)
- Apr. 2025- Assistant professor at the University of Tokyo

II. EDUCATION

- April 2016 March 2019: Graduate School of Science, The University of Tokyo, Japan
- Doctor of Philosophy in Astronomy, Thesis title: The nature of Lya emitters: SFR, stellar mass, and dark matter halo mass
- April 2014 March 2016: Graduate School of Science, The University of Tokyo, Japan
- Master of Science, Astronomy, Thesis title: Star Formation Activity and Its Diversity of Low-Mass
 Galaxies at Cosmic Noon
- April 2010 March 2014: Faculty of Science, The University of Tokyo, Japan,
- Bachelor of Science, Astronomy

III. Publication list

First author (refereed article)

- 1. ``First Infrared-Based Implications for the Dust Attenuation and Star Formation of Typical Ly α Emitters", H. Kusakabe, K. Shimasaku, K. Nakajima, & M. Ouchi, ApJL, 800, 2, 2015 DOI: 10.1088/2041-8205/800/2/L29
- 2. ``The stellar mass, star formation rate and dark matter halo properties of LAEs at z ~ 2", H. Kusakabe, K. Shimasaku, M. Ouchi, K. Nakajima, R. Goto, T. Hashimoto, A. Konno, Y. Harikane, J.D. Silverman, & P.L. Capak, PASJ, 70, 1, 2018.

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- 3. "The dominant origin of diffuse Ly α halos around Ly α emitters explored by spectral energy distribution fitting and clustering analysis", H. Kusakabe, K. Shimasaku, R. Momose, M. Ouchi, K. Nakajima, T. Hashimoto, Y. Harikane, J.D. Silverman, & P.L. Capak, PASJ, 71, 3, 2019. <u>DOI:</u> 10.1093/pasj/psz029
- 4. O ``The MUSE Hubble Ultra Deep Field Survey. XIV. Evolution of the Ly α emitter fraction from z = 3 to z = 6", H. Kusakabe, J. Blaizot, T. Garel, A. Verhamme, R. Bacon, J. Richard, T. Hashimoto, H. Inami, S. Conseil, B. Guiderdoni, A.B. Drake, E. Christian Herenz, J. Schaye, P. Oesch, J. Matthee, R. Anna Marino, K. Borello Schmidt, R. Pello, M. Maseda, F. Leclercq, J. Kerutt, & G. Mahler, A&A, 638, DOI:10.1051/0004-6361/201937340
- 5. ○"The MUSE eXtremely Deep Field: Individual detections of Lya haloes around rest-frame UV-selected galaxies at z ≈ 2.9-4.4", H. Kusakabe, A. Verhamme, J. Blaizot, T. Garel, L. Wisotzki, F. Leclercq, R. Bacon, J. Schaye, S.G. Gallego, J. Kerutt, J. Matthee, M. Maseda, T. Nanayakkara, R. Pello, J. Richard, L. Tresse, T. Urrutia, & E. Vitte, A&A, 660, 2022.

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O``The MUSE eXtremely Deep Field: Detections of circumgalactic Sill* emission at z>~2", H. Kusakabe, V. Mauerhofer, A. Verhamme, T. Garel, J. Blaizot, L. Wisotzki, J. Richard, L.A. Boogaard, F. Leclercq, Y. Guo, A. Claeyssens, T. Contini, E.C. Herenz, J. Kerutt, M.V. Maseda, L. Michel-Dansac, T. Nanayakkara, M. Ouchi, I. Pessa, & J. Schaye, A&A, 691, 255, 2024.
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Other articles

- 7. "The extreme starburst J1044+0353 blows kiloparsec-scale bubbles", E. Herenz, H. Kusakabe, S. Maulick, PASJ, 77. 4, L63-69, 2025
- 8. "RIDEN pilot survey: broad-band selection of candidate quasars with extended Lyman-a nebulae using CLAUDS-HSC-SSP-DUNES2 joint data", R. Shimakawa, S. Kikuta, H. Kusakabe, M. Sawicki, Y. Liang, R. Momose, S. Gwyn, G. Desprez, MNRAS, 540(4) 3565-3582, 2025
- 9. ``SILVERRUSH. XIV. Lya Luminosity Functions and Angular Correlation Functions from 20,000 Lya Emitters at z ~ 2.2–7.3 from up to 24 deg2 HSC-SSP and CHORUS Surveys: Linking the Postreionization Epoch to the Heart of Reionization", H. Umeda, M. Ouchi, S. Kikuta, Y. Harikane, Y. Ono, T. Shibuya, A. Inoue, K. Shimasaku, Y. Liang, A. Matsumoto, S. Saito, H. Kusakabe, Y. Kageura, M. Nakane, ApJS, 277,2, 2025
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 A. Verhamme, P. Hibon, F. Leclercq, B. Alcalde Pampliega, J. Kerutt, H. Kusakabe, J. Matthee, Y.
 Guo, R. Bacon, M. Maseda, J. Richard, J. Pharo, J. Schaye, L. Boogaard, T. Nanayakkara, T. Contini,
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- 11. "A galactic outflow traced by its extended Mg II emission out to a ~30 kpc radius in the Hubble Ultra Deep Field with MUSE", I. Pessa, L. Wisotzki, T. Urrutia, J. Pharo, R. Augustin, N.F. Bouche, A.

- Feltre, Y. Guo, D. Kozlova, D. Krajnovic, H. Kusakabe, F. Leclercq, H. Salas, J. Schaye, & A. Verhamme, A&A, 691, 66 2024
- 12. "Median surface-brightness profiles of Lyman- α haloes in the MUSE Extremely Deep Field", Y. Guo, R. Bacon, L. Wisotzki, T. Garel, J. Blaizot, J. Schaye, J. Richard, Y. Herrero Alonso, F. Leclercq, L. Boogaard, H. Kusakabe, J. Pharo, & E. Vitte, A&A, 688, 2024
- 13. "EMPRESS. XIV. Strong High-ionization Lines of Young Galaxies at z = 0-8: Ionizing Spectra Consistent with the Intermediate-mass Black Holes with M_BH ~10^3-10^6 M_odot", S. Hatano, M. Ouchi, H. Umeda, K. Nakajima, T. Kawaguchi, Y. Isobe, S. Aoyama, K. Watanabe, Y. Harikane, H. Kusakabe, A. Matsumoto, T.J. Moriya, M. Nishigaki, Y. Ono, M. Onodera, Y. Sugahara, A. Suzuki, Y. Xu, & Y. Zhang, ApJ, 966, 2, 2024
- 14. "Large-scale excess H I absorption around z ~4 galaxies detected in a background galaxy spectrum in the MUSE eXtremely deep field", J. Matthee, C. Golling, R. Mackenzie, G. Pezzulli, S. Lilly, J. Schaye, R. Bacon, H. Kusakabe, T. Urrutia, L. Boogaard, J. Brinchmann, M.V. Maseda, T. Garel, N.F. Bouche, & L. Wisotzki, MNRAS, 529, 3, 2024.
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- 16. "Linking UV spectral properties of MUSE Ly α emitters at z<~ 3 to Lyman continuum escape", I.G. Kramarenko, J. Kerutt, A. Verhamme, P.A. Oesch, L. Barrufet, J. Matthee, H. Kusakabe, I. Goovaerts, & T.T. Thai, MNRAS, 527, 4, 2024
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- 21. "Spatially-resolved Spectroscopic Analysis of Ly α Haloes: Radial Evolution of the Ly α Line Profile out to 60 kpc", Y. Guo, R. Bacon, L. Wisotzki, T. Garel, J. Blaizot, J. Schaye, J. Matthee, F. Leclercq, L. Boogaard, J. Richard, A. Verhamme, J. Brinchmann, L. Michel-Dansac, & H. Kusakabe, A&A in press., arXiv:2309.06311, 2023
- 22. "SILVERRUSH. XIII. A Catalog of 20,567 Ly α Emitters at z = 2-7 Identified in the Full-depth Data of the Subaru/HSC-SSP and CHORUS Surveys", S. Kikuta, M. Ouchi, T. Shibuya, Y. Liang, H. Umeda, A. Matsumoto, K. Shimasaku, Y. Harikane, Y. Ono, A.K. Inoue, S. Yamanaka, H. Kusakabe, R. Momose, N. Kashikawa, Y. Matsuda, & C.-H. Lee, ApJS, 268, 1, 2023
- 23. "EMPRESS. XI. SDSS and JWST Search for Local and z 4-5 Extremely Metal-poor Galaxies (EMPGs): Clustering and Chemical Properties of Local EMPGs", M. Nishigaki, M. Ouchi, K. Nakajima, Y. Ono, M. Rauch, Y. Isobe, Y. Harikane, K. Narita, F. Zahedy, Y. Xu, H. Yajima, H. Fukushima, Y. Hirai, J.H. Kim, S. Inoue, H. Kusakabe, C.-H. Lee, T. Nagao, & M. Onodera, ApJ, 952, 1, 2023
- 24. ``EMPRESS. IX. Extremely Metal-poor Galaxies are Very Gas-rich Dispersion-dominated Systems: Will the James Webb Space Telescope Witness Gaseous Turbulent High-z Primordial Galaxies?", Y. Isobe, M. Ouchi, K. Nakajima, S. Ozaki, N.F. Bouche, J.H. Wise, Y. Xu, E. Emsellem, H. Kusakabe, T. Hattori, T. Nagao, G. Chiaki, H. Fukushima, Y. Harikane, K. Hayashi, Y. Hirai, J.H. Kim, M.V. Maseda, K. Nagamine, T. Shibuya, Y. Sugahara, H. Yajima, S. Aoyama, S. Fujimoto, K. Fukushima, S. Hatano, A.K. Inoue, T. Ishigaki, M. Kawasaki, T. Kojima, Y. Komiyama, S. Koyama, Y. Koyama, C.-H. Lee, A. Matsumoto, K. Mawatari, T.J. Moriya, K. Motohara, K. Murai, M. Nishigaki, M. Onodera, Y. Ono, M. Rauch, T. Saito, R. Sasaki, A. Suzuki, T.T. Takeuchi, H. Umeda, M. Umemura, K. Watanabe, K. Yabe, & Y. Zhang, ApJ, 951, 2, 2023.
- 25. ``Clustering dependence on Ly α luminosity from MUSE surveys at 3 < z < 6", Y. Herrero Alonso, T. Miyaji, L. Wisotzki, M. Krumpe, J. Matthee, J. Schaye, H. Aceves, H. Kusakabe, & T. Urrutia, A&A, 671, 2023 .
- 26. "A ~15 kpc outflow cone piercing through the halo of the blue compact metal-poor galaxy SBS 0335-052E", E.C. Herenz, J. Inoue, H. Salas, B. Koenigs, C. Moya-Sierralta, J.M. Cannon, M. Hayes, P. Papaderos, G. Ostlin, A. Bik, A. Le Reste, H. Kusakabe, A. Monreal-Ibero, & J. Puschnig, A&A, 670, 2023
- 27. "The MUSE Hubble Ultra Deep Field surveys: Data release II", R. Bacon, J. Brinchmann, S. Conseil, M. Maseda, T. Nanayakkara, M. Wendt, R. Bacher, D. Mary, P.M. Weilbacher, D. Krajnovic, L. Boogaard, N. Bouche, T. Contini, B. Epinat, A. Feltre, Y. Guo, C. Herenz, W. Kollatschny, H. Kusakabe, F. Leclercq, L. Michel-Dansac, R. Pello, J. Richard, M. Roth, G. Salvignol, J. Schaye, M. Steinmetz, L. Tresse, T. Urrutia, A. Verhamme, E. Vitte, L. Wisotzki, & S.L. Zoutendijk, A&A, 670, 2023.

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- 30. ``EMPRESS. V. Metallicity Diagnostics of Galaxies over 12 + log(O/H) ≈ 6.9-8.9 Established by a Local Galaxy Census: Preparing for JWST Spectroscopy", K. Nakajima, M. Ouchi, Y. Xu, M. Rauch, Y. Harikane, M. Nishigaki, Y. Isobe, H. Kusakabe, T. Nagao, Y. Ono, M. Onodera, Y. Sugahara, J.H. Kim, Y. Komiyama, C.-H. Lee, & F.S. Zahedy, ApJS, 262, 1, 2022
- 31. ``The MUSE extremely deep field: first panoramic view of an Mg II emitting intragroup medium", F. Leclercq, A. Verhamme, B. Epinat, C. Simmonds, J. Matthee, N.F. Bouche, T. Garel, T. Urrutia, L. Wisotzki, J. Zabl, R. Bacon, V. Abril-Melgarejo, L. Boogaard, J. Brinchmann, S. Cantalupo, T. Contini, J. Kerutt, H. Kusakabe, M. Maseda, L. Michel-Dansac, S. Muzahid, T. Nanayakkara, J. Richard, & J. Schaye, A&A, 663, 2022
- 32. "SILVERRUSH. XII. Intensity Mapping for Ly α Emission Extending over 100-1000 Comoving Kpc around z=2-7 LAEs with Subaru HSC-SSP and CHORUS Data", S. Kikuchihara, Y. Harikane, M. Ouchi, Y. Ono, T. Shibuya, R. Itoh, R. Kakuma, A.K. Inoue, H. Kusakabe, K. Shimasaku, R. Momose, Y. Sugahara, S. Kikuta, S. Saito, N. Kashikawa, H. Zhang, & C.-H. Lee, ApJ, 931, 2, 2022
- 33. "EMPRESS. VI. Outflows Investigated in Low-mass Galaxies with M* =10^4-10^7 Msun: Weak Feedback in Low-mass Galaxies?", Y. Xu, M. Ouchi, M. Rauch, K. Nakajima, Y. Harikane, Y. Sugahara, Y. Komiyama, H. Kusakabe, S. Fujimoto, Y. Isobe, J.H. Kim, Y. Ono, & F.S. Zahedy, ApJ, 929, 2, 2022
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- 36. ``EMPRESS. IV. Extremely Metal-poor Galaxies Including Very Low-mass Primordial Systems with M*

- =10^4-10^5 Msun and 2%-3% (O/H): High (Fe/O) Suggestive of Metal Enrichment by Hypernovae/Pair-instability Supernovae", Y. Isobe, M. Ouchi, A. Suzuki, T.J. Moriya, K. Nakajima, K. Nomoto, M. Rauch, Y. Harikane, T. Kojima, Y. Ono, S. Fujimoto, A.K. Inoue, J.H. Kim, Y. Komiyama, H. Kusakabe, C.-H. Lee, M. Maseda, J. Matthee, L. Michel-Dansac, T. Nagao, T. Nanayakkara, M. Nishigaki, M. Onodera, Y. Sugahara, & Y. Xu, ApJ, 925, 2, 2022.
- 37. ``EMPRESS. III. Morphology, Stellar Population, and Dynamics of Extremely Metal-poor Galaxies (EMPGs): Are EMPGs Local Analogs of High-z Young Galaxies?", Y. Isobe, M. Ouchi, T. Kojima, T. Shibuya, K. Hayashi, M. Rauch, S. Kikuchihara, H. Zhang, Y. Ono, S. Fujimoto, Y. Harikane, J.H. Kim, Y. Komiyama, H. Kusakabe, C.-H. Lee, K. Mawatari, M. Onodera, Y. Sugahara, & K. Yabe, ApJ, 918, 2, 2021 .
- 38. ``SILVERRUSH. IX. Ly α Intensity Mapping with Star-forming Galaxies at z = 5.7 and 6.6: A Possible Detection of Extended Ly α Emission at <~100 Comoving Kiloparsecs around and beyond the Virial-radius Scale of Galaxy Dark Matter Halos", R. Kakuma, M. Ouchi, Y. Harikane, Y. Ono, A.K. Inoue, Y. Komiyama, H. Kusakabe, C.-H. Lee, Y. Matsuda, Y. Matsuoka, K. Mawatari, R. Momose, T. Shibuya, & Y. Taniguchi, ApJ, 916, 1, 2021
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- 49. "MUSE observations towards the lensing cluster A2744: Intersection between the LBG and LAE populations at z ~ 3-7", G. de La Vieuville, R. Pello, J. Richard, G. Mahler, L. Lev{\(\frac{4}{e}\)}que, F.E. Bauer, D.J. Lagattuta, J. Blaizot, T. Contini, L. Guaita, H. Kusakabe, N. Laporte, J. Martinez, M.V. Maseda, D. Schaerer, K.B. Schmidt, & A. Verhamme, A&A, 644, 2020
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- 52. ``ALMA twenty-six arcmin^2 survey of GOODS-S at one millimeter (ASAGAO): Millimeter properties of stellar mass selected galaxies", Y. Yamaguchi, K. Kohno, B. Hatsukade, T. Wang, Y. Yoshimura, Y. Ao, J.S. Dunlop, E. Egami, D. Espada, S. Fujimoto, N.H. Hayatsu, R.J. Ivison, T. Kodama, H. Kusakabe, T. Nagao, M. Ouchi, W. Rujopakarn, K.-. ichi . Tadaki, Y. Tamura, Y. Ueda, H. Umehata, & W.-H. Wang, PASJ, 72, 4, 2020.

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- 54. "Elevated ionizing photon production efficiency in faint high-equivalent-width Lyman- α emitters", M.V. Maseda, R. Bacon, D. Lam, J. Matthee, J. Brinchmann, J. Schaye, I. Labbe, K.B. Schmidt, L. Boogaard, R. Bouwens, S. Cantalupo, M. Franx, T. Hashimoto, H. Inami, H. Kusakabe, G. Mahler, T. Nanayakkara, J. Richard, & L. Wisotzki, MNRAS, 493, 4, 2020.
- 55. "CHORUS. III. Photometric and Spectroscopic Properties of Ly α Blobs at z = 4.9-7.0", H. Zhang, M. Ouchi, R. Itoh, T. Shibuya, Y. Ono, Y. Harikane, A.K. Inoue, M. Rauch, S. Kikuchihara, K. Nakajima, H. Yajima, S. Arata, M. Abe, I. Iwata, N. Kashikawa, S. Kawanomoto, S. Kikuta, M.A.R. Kobayashi, H. Kusakabe, K. Mawatari, T. Nagao, K. Shimasaku, & Y. Taniguchi, ApJ, 891, 2, 2020
- 56. ``The MUSE Hubble Ultra Deep Field Survey. XIII. Spatially resolved spectral properties of Lyman α haloes around star-forming galaxies at z < 3", F. Leclercq, R. Bacon, A. Verhamme, T. Garel, J. Blaizot, J. Brinchmann, S. Cantalupo, A. Claeyssens, S. Conseil, T. Contini, T. Hashimoto, E.C. Herenz, H. Kusakabe, R.A. Marino, M. Maseda, J. Matthee, P. Mitchell, G. Pezzulli, J. Richard, K.B. Schmidt, & L. Wisotzki, A&A, 635, 2020
- 57. ``ALMA 26 arcmin^2 Survey of GOODS-S at 1 mm (ASAGAO): Near-infrared-dark Faint ALMA Sources", Y. Yamaguchi, K. Kohno, B. Hatsukade, T. Wang, Y. Yoshimura, Y. Ao, K.I. Caputi, J.S. Dunlop, E. Egami, D. Espada, S. Fujimoto, N.H. Hayatsu, R.J. Ivison, T. Kodama, H. Kusakabe, T. Nagao, M. Ouchi, W. Rujopakarn, K.-. ichi . Tadaki, Y. Tamura, Y. Ueda, H. Umehata, W.-H. Wang, & M.S. Yun, ApJ, 878, 1, 2019
- 58. ``CHORUS. II. Subaru/HSC Determination of the Ly α Luminosity Function at z = 7.0: Constraints on Cosmic Reionization Model Parameter", R. Itoh, M. Ouchi, H. Zhang, A.K. Inoue, K. Mawatari, T. Shibuya, Y. Harikane, Y. Ono, H. Kusakabe, K. Shimasaku, S. Fujimoto, I. Iwata, M. Kajisawa, N. Kashikawa, S. Kawanomoto, Y. Komiyama, C.-H. Lee, T. Nagao, & Y. Taniguchi, ApJ, 867, 1, 2018
- 59. ``SILVERRUSH. VI. A simulation of Ly α emitters in the reionization epoch and a comparison with Subaru Hyper Suprime-Cam survey early data", A.K. Inoue, K. Hasegawa, T. Ishiyama, H. Yajima, I. Shimizu, M. Umemura, A. Konno, Y. Harikane, T. Shibuya, M. Ouchi, K. Shimasaku, Y. Ono, H. Kusakabe, R. Higuchi, & C.-H. Lee, PASJ, 70, 3, 2018
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- 62. ``SILVERRUSH. II. First catalogs and properties of ~2000 Ly α emitters and blobs at z ~ 6-7 identified over the 14-21 deg^2 sky", T. Shibuya, M. Ouchi, A. Konno, R. Higuchi, Y. Harikane, Y. Ono, K. Shimasaku, Y. Taniguchi, M.A.R. Kobayashi, M. Kajisawa, T. Nagao, H. Furusawa, T. Goto, N. Kashikawa, Y. Komiyama, H. Kusakabe, C.-H. Lee, R. Momose, K. Nakajima, M. Tanaka, S.-Y. Wang, & S. Yuma, PASJ, 70, 2018 .
- 63. ``First data release of the Hyper Suprime-Cam Subaru Strategic Program", H. Aihara, R. Armstrong, S. Bickerton, J. Bosch, J. Coupon, H. Furusawa, Y. Hayashi, H. Ikeda, Y. Kamata, H. Karoji, S. Kawanomoto, M. Koike, Y. Komiyama, D. Lang, R.H. Lupton, S. Mineo, H. Miyatake, S. Miyazaki, T. Morokuma, Y. Obuchi, Y. Oishi, Y. Okura, P.A. Price, T. Takata, M.M. Tanaka, M. Tanaka, Y. Tanaka, T. Uchida, F. Uraguchi, Y. Utsumi, S.-Y. Wang, Y. Yamada, H. Yamanoi, N. Yasuda, N. Arimoto, M. Chiba, F. Finet, H. Fujimori, S. Fujimoto, J. Furusawa, T. Goto, A. Goulding, J.E. Gunn, Y. Harikane, T. Hattori, M. Hayashi, K.G. He{¥I}miniak, R. Higuchi, C. Hikage, P.T.P. Ho, B.-C. Hsieh, K. Huang, S. Huang, M. Imanishi, I. Iwata, A.T. Jaelani, H.-Y. Jian, N. Kashikawa, N. Katayama, T. Kojima, A. Konno, S. Koshida, H. Kusakabe, A. Leauthaud, C.-H. Lee, L. Lin, Y.-T. Lin, R. Mandelbaum, Y. Matsuoka, E. Medezinski, S. Miyama, R. Momose, A. More, S. More, S. Mukae, R. Murata, H. Murayama, T. Nagao, F. Nakata, M. Niida, H. Niikura, A.J. Nishizawa, M. Oguri, N. Okabe, Y. Ono, M. Onodera, M. Onoue, M. Ouchi, T.-S. Pyo, T. Shibuya, K. Shimasaku, M. Simet, J. Speagle, D.N. Spergel, M.A. Strauss, Y. Sugahara, N. Sugiyama, Y. Suto, N. Suzuki, P.J. Tait, M. Takada, T. Terai, Y. Toba, E.L. Turner, H. Uchiyama, K. Umetsu, Y. Urata, T. Usuda, S. Yeh, & S. Yuma, PASJ, 70, 2018
- 64. ``The Hyper Suprime-Cam SSP Survey: Overview and survey design", H. Aihara, N. Arimoto, R. Armstrong, S. Arnouts, N.A. Bahcall, S. Bickerton, J. Bosch, K. Bundy, P.L. Capak, J.H.H. Chan, M. Chiba, J. Coupon, E. Egami, M. Enoki, F. Finet, H. Fujimori, S. Fujimoto, H. Furusawa, J. Furusawa, T. Goto, A. Goulding, J.P. Greco, J.E. Greene, J.E. Gunn, T. Hamana, Y. Harikane, Y. Hashimoto, T. Hattori, M. Hayashi, Y. Hayashi, K.G. He{¥I}miniak, R. Higuchi, C. Hikage, P.T.P. Ho, B.-C. Hsieh, K. Huang, S. Huang, H. Ikeda, M. Imanishi, A.K. Inoue, K. Iwasawa, I. Iwata, A.T. Jaelani, H.-Y. Jian, Y. Kamata, H. Karoji, N. Kashikawa, N. Katayama, S. Kawanomoto, I. Kayo, J. Koda, M. Koike, T. Kojima, Y. Komiyama, A. Konno, S. Koshida, Y. Koyama, H. Kusakabe, A. Leauthaud, C.-H. Lee, L. Lin, Y.-T. Lin, R.H. Lupton, R. Mandelbaum, Y. Matsuoka, E. Medezinski, S. Mineo, S. Miyama, H. Miyatake, S. Miyazaki, R. Momose, A. More, S. More, Y. Moritani, T.J. Moriya, T. Morokuma, S. Mukae, R. Murata, H. Murayama, T. Nagao, F. Nakata, M. Niida, H. Niikura, A.J. Nishizawa, Y. Obuchi, M. Oguri, Y. Oishi, N. Okabe, S. Okamoto, Y. Okura, Y. Ono, M. Onodera, M. Onoue, K. Osato, M. Ouchi, P.A. Price, T.-S. Pyo, M. Sako, M. Sawicki, T. Shibuya, K. Shimasaku, A. Shimono, M. Shirasaki, J.D. Silverman, M. Simet, J. Speagle, D.N. Spergel, M.A. Strauss, Y. Sugahara, N. Sugiyama, Y. Suto, S.H. Suyu, N. Suzuki, P.J. Tait, M. Takada, T. Takata, N. Tamura, M.M. Tanaka, M. Tanaka, M. Tanaka, Y. Tanaka, T. Terai, Y. Terashima, Y. Toba, N. Tominaga, J. Toshikawa, E.L. Turner, T. Uchida, H.

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- 65. "A Hard Ionizing Spectrum in z = 3-4 Ly α Emitters with Intense [O III] Emission: Analogs of Galaxies in the Reionization Era?", K. Nakajima, R.S. Ellis, I. Iwata, A.K. Inoue, H. Kusakabe, M. Ouchi, & B.E. Robertson, ApJL, 831, 1, 2016
- 66. "Bright and Faint Ends of Ly α Luminosity Functions at z = 2 Determined by the Subaru Survey: Implications for AGNs, Magnification Bias, and ISM H I Evolution", A. Konno, M. Ouchi, K. Nakajima, F. Duval, H. Kusakabe, Y. Ono, & K. Shimasaku, ApJ, 823, 1, 2016

IV. INVITED/CONTRIBUTED TALKS IN INTERNATIONAL CONFERENCES

- 67. "First detections of circumgalactic Sill* emission at z >2", Baryons Beyond Galactic Boundaries 2024, India, 2024. 12
- 68. ``The general presence of a Lya halo around high-z galaxies and its high incidence rate", Kochel CLAW, Germany, 2024. 10
- 69. ``Search for metal-enriched haloes of z>2 galaxies with Sill*", 25th MUSE Busy Week, France, 2023.
- 70. "MXDF: Significant amount of hydrogen gas in the CGM around UV-selected galaxies at z=3-4 traced by Lya haloes", The production and escape of Lyman photons through time and space, Online, 2022.01
- 71. "The general presence of a Lya halo around high-z galaxies and its high incidence rate", SAZERAC, Online, 2021.06
- 72. "Late or patchy reionization suggested by the LAE fraction measured with HST and MUSE", EAS2020 \$13d, Online, 2020.07
- 73. ``The origin of diffuse Lyahalos around LAEs", Tokyo Spring Cosmic Lyman Alpha Workshop, Japan, 2018. 03
- 74. ``Mass Assembly Efficiency of LAEs at z~2: Stellar & Halo Properties", The Snowbird Cosmic Lyman-Alpha Workshop, US, 2017.03
- 75. ``Dark matter halo and stellar properties of extremely low-mass galaxies at z~2", The 6th Subaru International Conference, Japan, 2016.12 [invited]
- +17 oral presentations and five poster presentations

V. INVITED TALKS in SEMINARS

- 76. "CGM observations in emission", 東京大学天文学教育研究センター談話会, 2023年11月
- 77. "Gaseous hydrogen envelope of high-z galaxies observed with MUSE through Lya emission", 早稲田大学 Obsap コロキウム, 2021 年 5 月
- 78. "Constraining the reionization history with the LAE fraction measured with HST and MUSE", ExGal/Cosmology Seminar at UT Austin, アメリカ(remote), 2020年10月
- 79. "The nature of Ly α emitters: SFR, stellar mass, and dark matter halo mass", 東北大学談話会、 2019 年 2 月
- 80. "The nature of LAEs at z \sim 2: star formation activity and the origin of bright Lya halos", Durham University 談話会, イギリス, 2018 年 6 月
- 他. 国内外で12回のセミナー招待講演あり

VI. FELLOWSHIPS AND GRANTS

- 81. University of Tokyo Research Restart and Work-Life Balance Support Program FY2025 50 万円
- 82. JSPS 若手研究 25K17444 (2025.04-2028.03) 370 万円 "電波 21cm 線と可視光分光で探る銀河の形成初期"
- 83. JSPS 特別研究員 PD, 研究奨励費 23KJ2148 (2023.04-2026.03) 2083.2 万円 "広視野面分光装置による極金属欠乏銀河の銀河周辺物質の力学・電離状態の解明"
- 84. JSPS 海外特別研究員 202300224 (2021.04-2023.03) 1255.6 万円
- 85. The Swiss Society for Astrophysics and Astronomy MERAC funding award 2020 5000 Euro
- 86. Swiss Travel support from Society Academic of Geneva 2020 1450 CHF
- 87. Swiss Government Excellence Scholarship for postdocs (2019.09-2020.08)36000 CHF
- 88. JSPS 特別研究員 DC1 (2016.04-2019.03) 約 1000 万円
- 89. JSPS 若手研究者海外挑戦プログラム (2018年, リヨン天文台長期滞在) 約 160 万円
- 90. 第88回、90回、127回 早川基金 旅費支援 合計約89万円

VII. TELESCOPE TIME

- 91. ALMA (PI)、``Do there exist mini-SMGs at cosmic noon"、6.5 時間、2017.1.01618.S
- 92. Subaru/SWIMS (PI)、 ``Triple NB mapping of HI ¥& AGNs associated to HS1700 protocluster filaments"、 2.5 夜、 S22A0031N
- 93. VLT/MUSE (PI)、``Outflows and ionized circumgalactic medium of extremely metal-poor galaxies: the MUSE view"、 24 時間、110.23\$1
- 94. VLT/MUSE (PI), ``Outflows and ionized circumgalactic medium of extremely metal-poor galaxies:

- the MUSE view"、 14 時間、111.24HB
- 95. MeerKAT (PI)、``MeerKAT confirmation of rich gas content of extremely metal-poor galaxies''、38.6 時間、MKT-24047
- 96. GMRT (PI) "GMRT mapping of rich gas content of extremely metal-poor galaxies" 30 hours, 20250316, 30 時間、48_023
- 97. Subaru/FOCAS IFU、``Probing local metallicity environments of fast radio bursts with FOCAS IFU''、 1 夜、S25B0057N

VIII. AWARD

- 98. 東京大学 2013 年度理学部長賞受賞 (理学部学生選抜海外派遣プログラム)
- 99. 2014年度天文・天体物理若手夏の学校 銀河・銀河団セッション オーラルアワード 2 位受賞

IX. TEACHING EXPERIENCE

- 100. 東京大学総合文化研究科 2025 年度 A ターム「基礎システム学輪講 III」週 1 コマ
- 101. 東京大学総合文化研究科 2025 年度 S ターム「基礎システム学輪講Ⅲ」週 1 コマ
- 102. 東京大学前期教養課程 2024年度 \$ ターム「宇宙科学実習 Ⅱ」週 4 コマ
- 103. ジュネーブ大学理学部天文学専攻 2020-2022 年度「星間物質」演習 2 コマ
- 104. 東京大学理学系研究科天文学専攻 「木曽観測実習」「計算天文学」「物理実験」TA
- 105. Taiwan Astronomical Research Alliance: TARA summer student program 2025 2 名
 - "Revealing the origins of fast radio bursts by mapping their host galaxies"
 - Mr. Ryan Chuan-Keng Chuang (2025年7-8月)
 - Ms. Sherry Jie Shiuan Gong (2025年7-8月)
- 106. ジュネーブ大学大学院天文学専攻 修士 1 年生研究指導 (Astrophysics Lab I+II) 2 名
 - Mr. Bastien Lacave (2021年9月-2022年1月)
 - Mr. Nikita Smolnikov (2021年2月-7月)
- 107. ジュネーブ大学天文学科 学部 3 年生研究指導 (TP3) 3 名
 - Mr. Laurent Dalla Pola (2021年2-4月)
 - Mr. Bastien Lacave (2020年9-11月)
 - Mr. Yannick Arthur Eyholzer (2019年9月-11月)

X. Service Activity

108. 日本天文学会 Code of Conduct/ハラスメント防止ガイドライン策定タスクフォース 2024 年~

- 109. 論文査読 ApJ, ApJS, ApJL, MNRAS, A&A, 2019年~
- 110. 観測提案査読 (Subaru, ESO) 2019 年~
- 111. SOC, 10th-11th Galaxy evolution workshop, 台湾, 2024年8月, 名古屋 2025年8月
- 112. SOC, 銀河研究者のオープンフォーラム (Galaxy Evolution Community Knowledge-sharing Opportunity, GECKO) 2024年9月~
- 113. SOC, the 52nd Saas-Fee advanced course "The Circumgalactic Medium across cosmic time: an observational and modeling challenge", スイス, 2023 年 3 月
- 114. Editor, springer 社 "The Circumgalactic Medium across cosmic time: an observational and modeling challenge" (出版準備中)
- 115. LOC, Tokyo Spring Cosmic Lyman-alpha workshop (Sakura CLAW) 2018年3月