

Marcie (Jae Yeon) Mun

Institut d'Astrophysique de Paris, CNRS, Sorbonne Université
98 bis boulevard Arago
75014 Paris, France

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mun@iap.fr

ORCID: 0000-0002-3706-9955

Website: <https://jymarcie.github.io>

Research Appointments

• Institut d'Astrophysique de Paris (IAP)

Postdoctoral Researcher

- **Project title:** *Unveiling the hidden population of galaxies from cosmic dawn to cosmic reionization*

- **Supervisor:** Dr. Hakim Atek

Paris, France

Nov 2025 - present

• Korea Astronomy and Space Science Institute (KASI)

Visiting Researcher

Daejeon, Korea

Sep 2020 - Feb 2021

- **Project title:** *Role of galaxy-galaxy interactions on the evolution of galaxy properties in IllustrisTNG*

- **Host:** Dr. Ho Seong Hwang

Education

• Australian National University (ANU)

Ph.D. in Astronomy & Astrophysics

Canberra, Australia

Mar 2021 - Oct 2025

- **Thesis:** *Spatially resolved star formation and quenching: insights from observations and simulations*

- **Primary supervisor:** A/Prof. Emily Wisnioski

- **Co-supervisors:** Dr. Andrew Battisti, Dr. Trevor Mendel, Prof. Sara Ellison

• Seoul National University (SNU)

M.S. in Astronomy

Seoul, Korea

Mar 2018 - Aug 2020

- **Thesis:** *Star Formation Activity of Galaxies Undergoing Ram Pressure Stripping in the Virgo Cluster*

- **Advisors:** Prof. Myung Gyo Lee, Dr. Ho Seong Hwang

• University of California, Los Angeles (UCLA)

B.S. in Astrophysics

Los Angeles, CA, USA

Sep 2012 - Jun 2016

Teaching Experience

• Seoul National University (SNU)

Graduate Teaching Assistant

Seoul, Korea

Mar 2019 - June 2019 / Mar 2020 - June 2020

- **Course:** *Techniques in Astronomical Observation*

- Covered topics ranging from basics of data reduction, aperture and PSF photometry, deep field photometry, to long-slit spectroscopy, along with the basics of IRAF and SExtractor.

Publications

I used to publish under the name of Mun, Jae Yeon, but now publish under either Mun, Marcie or Mun, M. Please refer to this [ADS Library](#) for an easily accessible list of all my publications.

First-author publications

- **Mun, M.**, Wisnioski, E., Harborne, K.E., Lagos, C.D.P., Valenzuela, L.M. et al. (2025),
The MAGPI Survey: radial trends in star formation across different cosmological simulations in comparison with observations at $z \sim 0.3$, MNRAS, 538, 976
- **Mun, M.**, Wisnioski, E., Battisti, A.J., Mendel, J.T., Ellison, S.L., et al. (2024),
The MAGPI Survey: evolution of radial trends in star formation activity across cosmic time, MNRAS, 530, 5072
- **Mun, J.Y.**, Hwang, H.S., Lee, M.G., Chung, A., Yoon, H., Lee, J.C. (2021),
Star Formation Activity of Galaxies Undergoing Ram Pressure Stripping in the Virgo Cluster, JKAS, 54, 17

Co-author publications

- Mai, Y., Croom, S.M., Wisnioski, E., Battisti, A.J., Mendel, J.T., **Mun, M.**, et al. (2025),
The MAGPI Survey: forward modelled gas-phase metallicity gradients in galaxies at $z \sim 0.3$, MNRAS, submitted
- Park, H.-J., Battisti, A.J., Wisnioski, E., Cortese, L., Seibert, M., — 6 authors — **Mun, M.**, et al. (2024),
The spatially resolved relation between dust, gas, and metal abundance with the TYPHOON survey, MNRAS, 535, 729
- Mai, Y., Croom, S.M., Wisnioski, E., Vaughan, S.P., Varidel, M.R., — 2 authors — **Mun, M.**, et al. (2024),
The MAGPI Survey: the evolution and drivers of gas turbulence in intermediate-redshift galaxies, MNRAS, 533, 3878
- Derkenne, C., McDermid, R.M., D'Eugenio, F., Foster, C., Khalid, A., — 6 authors — **Mun, M.**, et al. (2024),
The MAGPI Survey: Massive slow rotator population in place by $z \sim 0.3$, MNRAS, 531, 4602
- Chen, Q.-H., Grasha, K., Battisti, A.J., Wisnioski, E., Mendel, T., — 4 authors — **Mun, M.**, et al. (2024),
The MAGPI Survey: effects of spiral arms on different tracers of the interstellar medium and stellar populations at $z \sim 0.3$, MNRAS, 527, 2991
- Bagge, R.S., Foster, C., Battisti, A., Bellstedt, S., **Mun, M.**, et al. (2023),
The MAGPI Survey: Drivers of kinematic asymmetries in the ionised gas of $z \sim 0.3$ star-forming galaxies, PASA, 40, 60
- Lee, J.H., Lee, M.G., **Mun, J.Y.**, Cho, B., Kang, J. (2022)
A GMOS/IFU Study of Jellyfish Galaxies in Massive Clusters, ApJ, 940, 24
- Lee, J.H., Lee, M.G., **Mun, J.Y.**, Cho, B., Kang, J. (2022),
Enhanced Star Formation Activity of Extreme Jellyfish Galaxies in Massive Clusters and the Role of Ram Pressure Stripping, ApJL, 931L, 22

Presentations

Conference talks / Colloquia

- **Nov 2024.** Seminar (University of Vienna, Austria)
- **Nov 2024.** Seminar (Universitäts-Sternwarte München, Germany)
- **Nov 2024.** *A decade of discoveries with MUSE and beyond* (ESO Garching, Germany)
- **Nov 2024.** Galaxies Discussion Group Talk (Kavli Institute for Cosmology, Cambridge, United Kingdom)
- **Oct 2024. (Invited)** *ASA¹ Early Career Researcher (ECR) Chapter Symposium Series* (Macquarie University, Sydney, Australia)
- **Oct 2024.** Astro Seminar (University of New South Wales, Sydney, Australia)
- **Jun 2024.** *ASTRO 3D² Science Legacy Meeting* (Sydney, Australia)
- **Sep 2023.** *Galaxy Transformation Across Space and Time – 3rd ESO-Australia Meeting* (Canberra, Australia)
- **Jul 2023.** *ASA Annual Science Meeting 2023* (Macquarie University, Sydney, Australia)
- **Sep 2022.** *Epoch of Galaxy Quenching 2022* (Kavli Institute for Cosmology, Cambridge, United Kingdom)
- **Aug 2022.** *IAU Symposium 373: Resolving the Rise and Fall of Star Formation in Galaxies* (Busan, Korea)
- **Aug 2021. (Invited)** *Korean Young Astronomers Meeting (K-YAM) Colloquium* (Online)
- **Feb 2021.** *Galaxy Evolution Workshop 2020* (Academia Sinica Institute of Astronomy and Astrophysics, Taipei, Taiwan; Online)

Awards

ANU RSAA Olin J Eggen Research Award (2,500 AUD) 2023–2024
– *For excellence in research by an international PhD student in astronomy & astrophysics*

ANU RSAA Supplementary Scholarship 2021–2024

ANU PhD Scholarship 2021–2024

Korean Astronomical Society (KAS) Rising Star Award (500,000 KRW) 2021
– *For best student paper published in the Journal of the Korean Astronomical Society (JKAS) in the first half of 2021*

SNU Merit-Based Scholarship 2018, 2019

¹Astronomical Society of Australia

²ASTRO 3D: ARC Centre of Excellence for All Sky Astrophysics in 3 Dimensions

Observing Proposals

Co-I *Influence of the environment in shaping galaxies at the $z \sim 0.3$ transitional epoch*
(PI: Barsanti, S.)

- AAT/AAOmega+2dF: A/2023A/07 – 4 nights; A/2023B/06 – 2.5 nights; A/2024A/04 – 1 night;
total: 7.5 nights

Co-I *Spectroscopic Mapping of Jellyfish Galaxies in Massive Galaxy Clusters with GMOS/IFU*
(PI: Lee, J.H.)

- Gemini North/GMOS: GN-2021A-Q-205 – 11.4 hours

Co-I *Dissecting the Most Extreme Jellyfish Galaxy F0083 in a Very Massive Galaxy Cluster Abell 2744 with GMOS/IFU* (PI: Lee, J.H.)

- Gemini South/GMOS: GS-2019B-Q-219 – 8.4 hours

Services

ASTRO 3D ANU Student Representative Apr 2022 - Mar 2024
– *Point of contact for student concerns at the ANU node of ASTRO 3D*

ASTRO 3D Student Committee Chair Apr 2023 - Mar 2024
– *Lead the national committee to run student workshops for networking & career development opportunities*

Research Skills

Programming Languages

- Python, IDL, Bash

Software

- IRAF, SExtractor, GALFIT, LEPHARE, PSFEX, TOPCAT

Data & Simulations

- **Instruments:** Multi-Unit Spectroscopic Explorer (MUSE)
- **Simulations:** EAGLE (GADGET3/ANARCHY), MAGNETICUM (GADGET3), ILLUSTRIS TNG (AREPO)

Collaborations/Memberships

- MAGPI (Middle Ages Galaxy Properties with Integral Field Spectroscopy)
- ASTRO 3D (ARC Centre of Excellence in All Sky Astrophysics in 3 Dimensions)
- ASA (Astronomical Society of Australia)