

# Marcie (Jae Yeon) Mun

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## Research Appointments

- **Institut d'Astrophysique de Paris (IAP)** Paris, France  
*Postdoctoral Researcher* Nov 2025 - present
  - **Project title:** *Unveiling the hidden population of galaxies from cosmic dawn to cosmic reionization*
  - **Supervisor:** Dr. Hakim Atek
- **Korea Astronomy and Space Science Institute (KASI)** Daejeon, Korea  
*Visiting Researcher* 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)** Canberra, Australia  
*Ph.D. in Astronomy & Astrophysics* 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)** Seoul, Korea  
*M.S. in Astronomy* Mar 2018 - Aug 2020
  - **Thesis:** *Star Formation Activity of Galaxies Undergoing Ram Pressure Stripping in the Virgo Cluster*
  - **Advisors:** Prof. Myung Gyoon Lee, Dr. Ho Seong Hwang
- **University of California, Los Angeles (UCLA)** Los Angeles, CA, USA  
*B.S. in Astrophysics* Sep 2012 - Jun 2016

## Teaching Experience

- **Seoul National University (SNU)** Seoul, Korea  
*Graduate Teaching Assistant* 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, accepted ([arXiv: 2512.08112](#))
- Nakane, M., Kokorev, V., Fujimoto, S., Ouchi, M., McLeod, D.J., — **Mun, M.**, et al. (2025), *VENUS: A Strongly Lensed Clumpy Galaxy at  $z \sim 11 - 12$  behind the Galaxy Cluster MACS J0257.1-2325*, ApJ, submitted ([arXiv: 2511.14483](#))
- 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

- **Dec 2025.** Galaxies Journal Club Seminar (Institut d'Astrophysique de Paris, France)
- **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)** ASA<sup>1</sup> *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 3D*<sup>2</sup> *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)

<sup>1</sup>Astronomical Society of Australia

<sup>2</sup>ASTRO 3D: ARC Centre of Excellence for All Sky Astrophysics in 3 Dimensions

## 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

## 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), ILLUSTRISTNG (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)