

**Marcie (Jae Yeon) Mun**  
Research School of Astronomy & Astrophysics  
Australian National University, Canberra  
ACT 2611, Australia

*Last updated: 1st July, 2024*  
jaeyeon.mun@anu.edu.au  
ORCID: [0000-0002-3706-9955](https://orcid.org/0000-0002-3706-9955)  
Website: <https://jymarcie.github.io>

## Education

- **Australian National University (ANU)** Canberra, Australia  
*Ph.D. in Astronomy & Astrophysics* *Mar 2021 - present*
  - **Primary supervisor:** A/Prof. Emily Wisnioski
  - **Thesis:** *Evolution of the spatially resolved star formation activity of galaxies across cosmic time in observations and simulations*
- **Seoul National University (SNU)** Seoul, Korea  
*M.S. in Astronomy* *Mar 2018 - Aug 2020*
  - **Advisors:** Prof. Myung Gyoon Lee, Dr. Ho Seong Hwang
  - **Thesis:** *Star Formation Activity of Galaxies Undergoing Ram Pressure Stripping in the Virgo Cluster*
- **University of California, Los Angeles (UCLA)** Los Angeles, CA, USA  
*B.S. in Astrophysics* *Sep 2012 - Jun 2016*

## Research Appointments

- **Korea Astronomy and Space Science Institute (KASI)** Daejeon, Korea  
*Visiting Researcher* *Sep 2020 - Feb 2021*
  - **Host:** Dr. Ho Seong Hwang
  - **Project title:** *Role of galaxy-galaxy interactions on the evolution of galaxy properties in IllustrisTNG*

## 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., 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, 5072M
- **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., 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, 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, submitted
- 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, 4602D
- 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, 2991C
- 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, 60B
- 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, L22

## Presentations

Conference talks / Colloquia

- **Jun 2024.** *ASTRO-3D Science Legacy Meeting* (Sydney, Australia)
- **Sep 2023.** *Galaxy Transformation Across Space and Time – 3rd ESO-Australia Meeting* (Canberra, Australia)
- **Jul 2023.** *Astronomical Society of Australia (ASA) Annual Science Meeting (ASM) 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* (Virtual)
- **Feb 2021.** *Galaxy Evolution Workshop 2020* (Academia Sinica Institute of Astronomy and Astrophysics, Taipei, Taiwan; Virtual)

Selected poster presentations

- **Apr 2019.** *Korean Astronomical Society (KAS) Spring Meeting* (Busan, Korea)

## Awards

ANU RSAA Olin J Eggen Research Award (2,500 AUD)	2023–2024
– <i>For excellence in research by an international PhD student in astronomy &amp; astrophysics</i>	
ANU RSAA Supplementary Scholarship	2021–2024
ANU PhD Scholarship	2021–2024
Korean Astronomical Society (KAS) Rising Star Award (500,000 KRW)	2021
– <i>For best student paper published in JKAS in the first half of 2021</i>	
SNU Merit-Based Scholarship	2018, 2019

## Services

ASTRO-3D ANU Student Representative	Apr 2022 - Mar 2024
– <i>Point of contact for student concerns at the ANU node of ASTRO-3D</i>	
ASTRO-3D Student Committee Chair	Apr 2023 - Mar 2024
– <i>Lead the national committee to run student workshops for networking &amp; career development opportunities</i>	

## Research Skills

Programming and Markup Languages

- Python,  $\text{\LaTeX}$ , IDL (basic), Bash (command line)

Software

- IRAF, SExtractor, GALFIT, LePhare, PSFex

Data & Simulations

- **Instruments:** Multi-Unit Spectroscopic Explorer (MUSE)
- **Simulations:** EAGLE, MAGNETICUM, ILLUSTRISTNG

## 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)