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Education

- **Australian National University (ANU)** Canberra, Australia
Ph.D. in Astronomy & Astrophysics *Mar 2021 - Feb 2025*
 - **Thesis:** *Evolution of the spatially resolved star formation activity of galaxies across cosmic time in 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*

Research Appointments

- **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

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

- 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
- 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, accepted ([arXiv:2408.12224](#))
- 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-3D¹ 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)

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

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*

¹ASTRO-3D: ARC Centre of Excellence for All Sky Astrophysics in 3 Dimensions

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)