

# Jae Yeon (Marcie) Mun

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## Education

- **Australian National University (ANU)** Canberra, Australia  
*Ph.D. in Astronomy & Astrophysics* Mar 2021 - present
  - Primary supervisor: A/Prof. Emily Wisnioski
- **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 Experience

- **Korea Astronomy and Space Science Institute (KASI)** Daejeon, Korea  
*Visiting Researcher* Sep 2020 - Feb 2021
  - Host: Dr. Ho Seong Hwang
- **Seoul National University (SNU)** Seoul, Korea  
*Graduate Student Researcher* Aug 2018 - Aug 2020
  - Advisors: Prof. Myung Gyoon Lee, Dr. Ho Seong Hwang

## Teaching Experience

- **Seoul National University (SNU)** Seoul, Korea  
*Graduate Teaching Assistant* Mar 2019 - June 2019 / Mar 2020 - June 2020
  - *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

- Mun, M., Wisnioski, E., Battisti, A.J., Mendel, J.T., Ellison, S.L., et al. (2023) *The MAGPI Survey: Evolution of radial trends in star formation activity across cosmic time*, submitted to MNRAS.
- Chen, Q.-H., et al. (Mun, M.) (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., et al. (**Mun, M.**) (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, 931, L22.
- **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.

## Presentations

### Conference talks / Colloquia

- *Unifying observations and theory: Investigating radial trends in star formation across cosmic time with the MAGPI survey*, Galaxy Transformation Across Space and Time - 3rd ESO-Australia meeting, Australian Academy of Science, Canberra, Australia, Sep. 4-8, 2023
- *Unifying observations and theory: Investigating radial trends in star formation across cosmic time with the MAGPI survey*, Astronomical Society of Australia (ASA) Annual Science Meeting (ASM) 2023, Macquarie University, Sydney, Australia, Jul. 3-7, 2023
- *Spatially resolving the star formation activity of galaxies at 3 - 4 Gyrs of lookback time with MAGPI*, Epoch of Galaxy Quenching 2022, Kavli Institute for Cosmology, Cambridge, United Kingdom, Sep. 5-9, 2022
- *Spatially resolving the star formation activity of galaxies at 3 - 4 Gyrs of lookback time with MAGPI*, IAU Symposium 373: Resolving the Rise and Fall of Star Formation in Galaxies, Busan, Korea, Aug. 9-11, 2022
- *The Effects of Ram Pressure Stripping on the Star Formation Activity of Galaxies in the Virgo Cluster*, Invited, Korean Young Astronomers Meeting (K-YAM) Colloquium, Virtual, Nov. 19, 2021
- *The Effects of Ram Pressure Stripping on the Star Formation Activity of Galaxies in the Virgo Cluster*, Galaxy Evolution Workshop 2020, Virtual, Feb. 2-5, 2021

### Selected poster presentations

- **Mun, J.Y.**, Hwang H.S., Chung, A., Yoon, H., Lee, M.G. (2019) *Examining the star formation properties of galaxies in the Virgo cluster undergoing ram pressure stripping*. Korean Astronomical Society Spring Meeting, Busan, Korea, Apr. 10-12, 2019

## 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 JKAS in the first half of 2021*
- SNU Merit-Based Scholarship . . . . . 2018, 2019

## Leadership and Services

- ASTRO-3D ANU Student Representative . . . . . Apr 2022 - present  
– *Point of contact for student concerns at the ANU node of ASTRO-3D*
- ASTRO-3D Student Committee Chair . . . . . Apr 2023 - present  
– *Lead the committee to run student workshops for networking & career development opportunities*

## Computational Skills

Programming and Markup Languages

- Python, L<sup>A</sup>T<sub>E</sub>X, IDL (basic), Bash (command line)

Software

- IRAF, SExtractor, GALFIT, LePhare, PSFex

## 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)